New-style PhDs may threaten

NORTH AMERICA Town-gown strain over Boston property deals More money will not increase access, says Canadian report Billion dollar boost to high technology proposed to

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Australian students protest against new loans scheme Jobsharing introduced in West

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Next Week

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Indition New Spapers

[Milited, 1982]

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HIGHER EDUCATION SUPPLEMENT Priory House, St John's Lane, London ECIM 4BX. Telephone 01-253 3000

Bogged down in Ulster

The Government's proposal to amalgamate the New University of Ulster at Coleraine and the Ulster Polytechnic has run into serious trouble. Indeed that is too fair because the merger plan has been in trouble from the very start. It was only under duress and consequently with great reluctance that Coleraine agreed to talk at all. The polytechnic, which should of course be subject to the authority of the Northern Ireland Department of Education but in practice goes very

Northern Ireland Department of Education but in practice goes very much its own way, has seemed remarkably volatile in its attitude to the merger, blowing first cold, then hot, and now cool. As a result the steering group established to manage the merger has now been reduced to impotent factionalism, with the Government apparently unable or unwillernment apparently unable or unwill- provision at Queen's. So it might be medium term make a fresh start ing to assert its authority and to thought that the polytechnic could insist that its policy be carried out. In fact it is time some heads were terms appeared unattractive.

knocked together. The Government, having decided first that a continuation of the status quo was intolerable and then that the dismal solution recommended by the Chilver commended by the Chilver c

even the enteebled Northern Ireland performance of Education could allow the polyteclinic to rever to its own compromise. Perhaps a less complicated compromise could have been devised. But that is not the point. The Government has proposed; now it must dispose. Otherwise it will be guilty of that infirmity of purpose that has been such a prominent feature of British policy in Ireland over the years. So ong as Britain remains responsible for the administration of Northern relaind it should discharge its responsibilities with the same seriousness and same commitment as it does on this side of the Irish sea. Decent public administration cannot forever be subordinated to devolutionary (or decolonizing?) intentions.

be subordinated to devolutionary (or decolonizing?) intentions.

Nor can it be in the interests of either the university or the polytechnic to continue to blow hot and cold about the merger. However, the survival of university education.

The best way in which the group to perform as a disunited coterie of suspicious or ambitious individuals who are constantly manoeuvring for sectional advantage. In this respect to make it work must be made. Only when the process of examining the detailed problems of implementation has been gone through the survival of university education.

The best way in which the group to perform as a disunited coterie of suspicious or ambitious individuals who are constantly manoeuvring for sectional advantage. In this respect to make it work must be made. Only when the process of examining the detailed problems of implementation has been gone through the survival of university education.

The best way in which the group

The culture of research The present mismatch between scientific knowledge and its practical application operates at two levels; the price to make effective are components of that failure of our difficulty in organizing its research effort is also likely to stumble over

plication operates at two levels: the macro level of national culture. and the micro level of interest of the organization of the micro level of the organization of the potential address to the British: Association, far too day, British firms, have little appreciation of the potential, behefits of science and technology to their business, and too many people in industry and government regard science as an discommend failure. For example, the now creaking dual support system for university research may not only be expensive and so pay insufficient attention to how the potential beorganized economically and socially to produce practical benefits. Both attitudes reveal an narming alicins of the micro level of the organization of science. However that cannot be made an the much larger task of organizing the effective exploitation of scientific discovery can be that the ways in which that effort is organized contribute to this broader and too many people in industry and government regard science as a magic box which will solve all their now creaking dual support system for the university research may not only be expensive and so potentially wastered to the dual support system, the involvement of industry and government, the prospects for researchers; the organized economically and socially to produce practical benefits. Both attention to how the potential benefits of scientific discovery can be organized economically and socially to produce practical benefits but also by amphasizing the intuitive creative of the prospect of the potential benefits of scientific discovery can be organized economically and socially to produce practical benefits but also by amphasizing the in

Laurie Taylor



Is everybody here? Then let me welcome you all to the third meeting of this Lubour Party Working Group of the Education Sub-Committee of the Home Policy Committee Excuse mc, Chairperson, isn't it in fact our fourth meeting?

Yes, I should have said, welcome to the fourth meeting of this Labour Party Working Group of the Education Sub-Committee of the Home Policy Committee.
Thank you, Chairperson.

of course, Item One on your agenda:
Oxford and Cambridge. As I understand it there are two proposals for some slight changes in this Working Group's earlier description of these institutions as, "a major cancer of the education system". Yes, Neil?

this matter along, propose something rather less dramatic while retaining the medical metaphor?

Could you be a little more specific, Well, I was rather thinking along the

Yes, I see. Thank you. Caroline, I think you want to come in. Is there any possibility of some sort of com-promise here? I see from the paper you've circulated that you're a little unhappy yourself with this phrase "Major Cancer". I wonder if you would remind the Working Group of

Still too little literacy

National Literacy Week has come and almost gone for another year without appurently making a deep impact on public or political opinion. Despite an increased level of activity and attention from the media this year, the event has passed with fittle comment since UNESCO instituted its annual Literacy Day in 1966.

Ministers paid their respects to the efforts of local autitorities and volume along stay, services, and there was a west concentracy, services, and there was a west concentracy services, and there was a west concentracy services, and there was a result.

Although the problem is no longer period with fittle comment since UNESCO instituted its annual Literacy Day in 1966.

Ministers paid their respects to the efforts of local autitorities and volume of the public eye, estimates of the extent of little ray services, and there was a west accordance of the services, and there was a result.

Although the problem is no longer period with a concentracy services, and there was a result.

Although the problem is no longer period with a concentracy services, and there was a result.

Although the problem is no longer period with a concentracy services, and there was a result and the problem is no longer period with a service of the services, and there was a result.

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Although the problem is no longer period with the little tent period with the problem is no longer period with a service of the services, and there was a result with a service of the services, and there was a result.

Although the problem is no longer period with a service of the services, and there was a result with a service of the services.

Alt

The Times Higher Education Supplement September 17, 1982 No 515 Price 45p

£20m new blood plan considered **Publish** advice,

by Ngaio Crequer and Paul Flather

A fellowship scheme designed to compensate for the lack of bright young academics coming into the universities has been put to Education Secretary Sir Kelth Joseph by the University Grants Committee.

The committee would ideally like

Vote, worth £510m in 1983-84, be- Government support for up to 800 new jobs per year, to make up for the shortfall between the number of jobs being offered in the universities at the moment and a healthy rate of

The request comes formally from the Advisory Board for the Research Councils, headed by Sir Alec Merrison, which produces the "forward look" budgetary advice in the summer each year. The final say rests with the Secretary of State for Education, who usually accepts the ABRC advice. new staff over three years at a salary tain important papers on how to combat the looming problem of recruiting new blood into universities,

and on earmarking funds for research in information technology and space technology.

Ministers will naturally feel reluctions the space technology.

Ministers will naturally feel reluctions in the space technology. space technology.

Ministers will naturally feel reluc-

tant to publish advice which might leave them exposed to criticism if they went against ABRC wishes. But it is argued the present system is

But it is argued the present system is complex, subject to leaks anyway, and prevents open, informed debate.

A classic example of a clash of views came last year when, Sir Keith Joseph, Secretary of State for Education decided to lop an extra £1.1m off the 1982-83 budget of the Social Science Research Council against ABRC advice in favour of level funding.

This year the ABRC is understood to have postponed a final decision on the size of the SSRC budget pending a Government response to the Rothchild review of the SSRC, now expected sometime next month.

All internal memorandum per states summer states summer states summer states summer the summer its sub-complex. Subject to leaks anyway, and prevents open, informed debate. A classic example of a clash of views came last year when, Sir Keith Joseph, Secretary of State for Education decided to lop an extra £1.1m off the 1982-83 budget of the Social Science Research Council against ABRC advice in favour of level funding.

A substantial paper on the subject was prepared by Sir Pater Swiner ton-Dyer, master of St. Catharine's College, Cambridge, for the Advisory Board for the Research Councils, which discussed the problem in July. The UGC will discuss the growing a Government response to the Rothchild review of the SSRC budget pending a Government response to the Rothchild review of the SSRC, now expected sometime next month.

Throughout the summer its sub-companies that over the recruitment of young staff initially coming into the system as researchers only. They would then either continue as the also been looking at its mobility. Each was given a ten year even assuming there will be ten years even assuming there will be ten years even assuming the exit ten years even assuming there will be ten years even assuming there will be ten year

Thirdly, under the second option, the UGC itself is uncertain about the intrusive role for the committee which would decide where the new appointments were necessary and in which subjects and would greatly ex-

tend their role.

A recent official report on the Support of University Scientific Research (HMSO 8567) said that new made sources of cash should be made available specifically to recruit young

Other temporary solutions which will be considered by the UGC are extended fellowships and perhaps extension of a special replacement scheme pioneered by the SERC allowing a young academic to take a tenured appointment while a scnior academic is given more time for research. The £20m innovation fund is

also likely to be raided.

Sir Alec Merrison, ABRC chairman, who also headed the committee producing the SUSR report, said nothing had happened recently to lead him. him to believe the problem was going to be solved. This is a genuine investment problem. One could only tolerate it if one knew the

cavalry was coming soon."

Sir Peter Swinnerton-Dyer said that if there were no recruits over a period of 10 years research was likely to die. This is particularly true in science where most research is done in

groups. You need young people as a catalyst."

The UGC memorandum discussed the chances of persuading the Gov ernment to provide extra funds. assuming ministers were sympathetic.
The SERC papers, using the most

up-to-date statistics on the age disribution of university staff, suggest that about one in five scientist

DES climbs down over quotas Mrs Thatcher called on to

and Felicity Jones

A furious row broke out last week when the Government told the education sub-committee of the University Grants Committee how to assign the university teacher training quotas. It is the first illustration of direct UGC policy.

Members of the UGC sub-commit-

says ABRC

asked to publish the highly confiden-

tial advice they receive each year on how to divide the annual Science

Councils, headed by Sir Alec Merri-

This year's advice is known to con-

tween the five research councils.

sentative from each university will attend, to discuss the problems of matching supply with demand. No places will be offered until The future of the Central School for Speech and Drama is also in

Members of the UGC sub-committee protested when they were presented with a letter signed by the sented with a letter signed by the Department of Education and Science's assistant secretary Mr. Hugh Jenkins giving the quotas for Post graduate Certificate in Education and BEd places for experiment's proposals approached. Many staff of the 14 polytechnics of the BEd places for experiment's proposals approached. Many staff of the 14 polytechnics of the BED places in all. They reverse told that the quotas should be brought into effect in 1983 and continue until 1985. Committee In the public sector, staff, students

ber and on October 16 the Universities Council for the Education of Teachers will hold a conference, at which the UGC, DES and one representative from angle university will they were "very upset" by the Government's plans since they had enjoyed good relations with PNL.

Top industrialists and academics have set a six months deadline for the Prime Minister to approve a mas-

doubt as a result of PNL's closures since it trains many of their students

formed the DES that there has not been enough time for consultation; Consequently, Newman College in Birmingham, which faces closure if its courses are axed, has not made a

college will be meeting Mr William Waldegrave, under secretary of state,

set up top engineering group After the meeting some of

sive new investment in engineering

education,
Their urgent statement came in a paper sent to Mrs Thatcher last month. It called on her to create A solicitor acting on behalf of the Catholic Education Council has invarious government departments, to draw up a plan of action within six but the bill for such a programme months for a huge boost to en-gineering. The paper is the result of a lun-

submission.

A governors' delegation from the college will be meeting Mr William Waldegrave, under secretary of state, on September 30 to discuss the reasons.

snowing be prought into effect in 1985. Committee and continue until 1985. Committee members immediately rejected the DES approach and insisted it was the properties of the UGC, not the DBS, who were there as assessors only, to make the decisions.

The DES was represented at the meeting by Mr Philip Halsey, the under secretary of State for Education, about the meeting by Mr Philip Halsey, the land of State for Education at the polytechnic of North London would have on the morals of ethnic minor dity.

Jenkins, who was on leave.

After a long discussion the DES reflected and agreed that the committee would give each university quotas but rather than saying how they should be assigned by subject, and they are asking the universities how the humbers should be divided up.

The chairman of the Commission for Racial Equality, Mr Peter News and the committee would in the committee of the closure decision.

The City of Liverpool College of Higher Education received unsultance and the committee which the long-term effect would be to return to the difficulties will be assigned by subject, and the committee would give each university quotas but rather than saying how they should be assigned by subject, similar course for Asian students the numbers should be divided up.

The clay of Liverpool College of Higher Education received unsultance and cables, Mr Dennis Allipart, chairman of the new on September 30 to discuss the reasons for the closure decision.

The City of Liverpool College of Higher Education is the foundation at the continuous all-party support from its least continuous all-party support from the closure decision.

The City of Liverpool College of Higher Education is the foundation at the continuous all-party support from the closure decision.

The City of Liverpool College of Higher Education is the foundation at the continuous all-party support from its least continuous all-part

Thoughts of

Red Ted, 8

present drew up a paper which would effectively create an agenda for the high level group they recom-- the figure of 15 to 20 per cent has been mentioned - improving and reequipping engineering department facilities, and a focus on the training

No sums of money were discussed would be huge: a 20 per cent expansion in university engineering under-graduates alone would cost around 40m a year, with re-equipping

Behind the proposals is the now-familiar saga of Britain's outdated that it is falling behind in the tech-nological race. According to Dr. Tol-ley, Mrs Thatcher's guests told her that recent initiatives to increase engineering student numbers were not on the same scale as the overall policy change they were recommending.

Their emphasis on the creation of

an additional planning group - albeit short term — also puts a question mark over the status of the new Engineering Council which, nithough represented at the lunch by Sir Kenneth Corfied, has clearly not yet established its authority to speak for the industry and subject as a whole.

> Spotlight on Europe, I-IV

Palmerston's

the Bomb, 11

Birth of

training, 12

ACACE compiles progress report

Dr Richard Hoggart, chairman of the Advisory Council on Adult and Con-tinuing Education has written to every local authority director of education in England and Wales

asking for a progress report on their continuing education provision.

The letter is part of a new drive to implement the 1980 ACACE report on continuing education, which advocated a widespread increase in provision and entitlement, including the right for every adult to post-initial

education.

ACACE has appointed a campaign consultant, journalist Richard Bourne, to set up at least 12 conferences on the subject throughout the country, bringing together adult edu-cationalists, schools and further education providers, voluntary groups and local councillors into the debate.

Demolition charge

Dr Rhodes Boyson, under-secretary of state for education responsible for schools, has again condemned Labour's policy document on higher education, accusing the party of being a "political demolition contractor" in advocating more open entry to uni-versities and colleges.

Dr Boyson told a meeting in Car-

diff last week that Oxford and Cambridge were the envy of the world and had not got there by opening their doors to all.

Legal loans

A special loan scheme for law graduates taking professional examinations to qualify as solicitors has been intro-duced by Midland Bank. During the period of study and for 12 months after, the rate on an unsecured loan up to £2,500 a year will be held at four per cent per annum.

Vicarious viewing

One of the first programmes on Channel 4 is to be monitored by the Rev. Brian Brown, of the department of educational development at Oxford Polytechnic. Tyne Tees Television has awarded £5,300 for a study of The Tube, a youth/rock music series, to evaluate its effectiveness.

Ariane flies on

European Space Agency scientists could take weeks or even months to find out precisely why the first com-mercial flight of the Ariane rocket failed so spectacularly.

But officials are stressing there i

no question of abandoning the programme, although two out of five launches since Ariane's first flight in December 1979 have now ended in

Foyle's ban

College lecturers are being asked by their union, the National Association of Teachers in Further and Higher Education, to boycott W. and G. Foyle Ltd, the Charing Cross Road bookshop, until it concedes the right of its amplements to icin a trade price. of its employees to join a trade union The Association of University further and higher education, Mr Teachers has already called for a

Wadham gift: doubts grow

embarrassed after the controversy surrounding the deal, which only emerged in public following the resemble to the controversy student who cannot afford overseas student ignation of Mr Peter Gwyn, a one-year history research fellow, earlier this year.

Who cannot afford overseas student fees so they can study at Wadham.

This means he is supporting nine

Fund-raisers lose their appeal

finding comes from a nationwide sur- vice. vey conducted for the Standing Conference of University Information Officers, and presented to their

annual meeting at Kent University this week.
The questionnaire was sent to every university except Oxford and Cambridge, and 20 of the 42 respon- own.

Higher Education

the new phalans of students braces it - self for the rightness Marcho Indelect about 1...

used professional fund-raisers would do the job themselves in future. This distribution for any product or serdistribution for any product or ser- Three of these nine said they

university would have done on its future.

Cambridge, and 20 of the 42 respondents said they had run appeals in the last five years. Most had run the appeals themselves, but eight employed a fund-raising company and one retained a fund-raising company for advice.

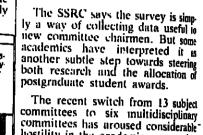
Only the university which restricted its dealings with outside consultants to advice was "very satis-

by Jon Turney
Most British universities which have
most British universities which have
fied, one not satisfied and one very said the service was not worth the
unsatisfied. As one conference dele-

would use the same company again. Respondents critical of fund-raising companies said they took too another time, with one institution high a percentage of the sum raised, undecided. All four universities they took an impersonal approach or were insensitive with prospective donors, or did little more than the

sultants to advice was "very satisfied" with the results. Two of the other eight which sought expert help were satisfied, four moderately satisfied a good job, they had no special expertise or magic formula.

Of the nine universities answering the questionnaire which had already used a fund-raising company, five over £100,000, with the most amountained that the properties of the properti



iostility in the academic community. There are particular fears that re searchers will increasingly be made to carry out research which suits Whitehall and the policymakers. One professor said this week:

"This survey was sprung on us during the summer vacation. There was litthe time to consult colleagues. The SSRC seems to be defining topics very narrowly and it is not clear

other universities have written saying it is impossible to define narrowly in advance what "topics" they might specialize in. The British Sociological Association has also expressed con-cern about what the information

Telling it how it really is . . . cartoonist Posy Simmonds has brought out her third collection of the Dr Janet Finch, vice-chairwoman of the BSA, said the survey could Mr Gwyn Jones, chairman of the London committee, said: "We be-lieve Mr Fletcher should not have

The SSRC will hand out 880 studentsltips this year, mostly on a quota basis with departments holding a fixed number of awards to distibute as they see fit. The fear is that quota awards will in future go to departments doing research

polytechnics are the employers, this is not something on which maladministration by the authority can be determined." Mr Fletcher com-

rounding the recognition issue were outside her terms of reference. A lose the freedom to choose topics of research, and independence could be plaints when the Chairman of ILEA's further and higher education, Mr Neil Fletcher described their organization as a "misbegotten and un-

Survey arouses suspicion

survey asking university department to indicate areas of specialist interest has provoked renewed suspicion about the switch towards greater emph asis on policy-orientated research

committees to six multidisciplinary committees has aroused considerable

The SSRC defines topic as a research subject or problem on which "several closely related lines of in-quiry are under way or could be closely launched so that several projects could be generated from it".

lead to a cut in the number of research topics considered worth sup-porting when the new committees come to hand out student awards, worth about £5m a year. There are just 40 awards in superior the rese just 40 awards in sociology this year.

by Paul Flather A Social Science Research Council

The SSRC wrote to all social science departments in July asking for information about topics "on which they would feel qualified to supering students" to help in preparing the six new topic-orientated subject com-

academics have interpreted it is another subtle step towards steering both research and the allocation of

theses or several faculty research

Oxford and Cumbridge among-

ne determined." Mr Fletcher com-nented.

A spokesman for the ombudsman

A spokesman for the ombudsman confirmed a letter had been sent to APT to say that the complaints sur-

Higher grades for poly places

were misled.

New doubts over the deal between Wadham College, Oxford and a Honkong millionaire involving the specifing of two places emerged this week when the college revealed it hand not received any news of the promised £500,000 benefaction for several months.

The college said it has not recently discussed the question of money with a control of the college said it has not recently discussed the question of money with a college said it has not recently discussed the question of money with a college said it has not recently discussed the question of money with a college said it has not recently discussed the question of money with a college said it has not recently discussed the question of money with a college said it has not recently discussed the question of money with a college said it has not recently discussed the question of money with a college said it has not recently discussed the question of money with a college said it has not recently discussed the question of money with a college. Oxford and a thoughout a place at the college, preferring to students accepted for places at polytechnic size reported. A substantial improvement in the A level grades of up to 20 per cent in average points in some cases. The trend is patchy, however, depending on the popularity of the provided and many courses still have vacanticles. But even so, students are re
The college said it has not received any news of the promised £500,000 benefaction for opening the discussed at the college, preferring to the clear if the benefaction will arrive at polytechnic in success of up to 20 per cent in average points in some cases.

The trend is patchy, however, depending on the popularity of the students with good per cent. This has been especially true in degree course in business ment, law, chemistry, accountancy and at and design.

The millionaire's daughter. Elikevel grades of up to 20 per cent in average points in some cases.

The trend is patchic,

The college said it has not recently discussed the question of money with Mr Lee Shau Kee, a property dealer, and could not confirm when the money, carmarked to pay for new college student accommodation, might be handed over.

Wartham now finds itself further

ber 1983

Or Geoffrey Brooker, admissions tutor for Wadham, said the question of the money had not been raised once it was learnt that Mr Shau Kee's daughter would not be coming to the college. He blamed uncertainty in the Hongkong property marker as the major reason for any delay. might be handed over.

Wadham now finds itself further

ty in the Hongkong property marker
as the major reason for any delay.

Hongkong students a year.

The local government ombudsman has told a non-TUC lecturers' union

tion Authority advised two

polytechnics on a recognition claim. Baroness Scrota, the Commission-

er for Local Administration, decided.

after considering allegations of maladministration from the Association of Polytechnic Teachers, that they were outside her remit because

they dealt with personnel questions.

Officials of the London joint committee at APT lodged their com-

plaints when the chairman of ILEA's

activities of The Silent Three, first seen in The Guardian. Pick of Posy is published by Jonathan Cape at \$5.50.

representative association," and said

the authority would never recognize

former senior ILEA officials in their complaint which also dealt with

advice given to the governing bodies of Central and North London

APT named Mr Fletcher and two

APT had claimed it had de facto

recognition following the decision by Sir Keith Joseph, Secretary of State

for Education to give it a seat on the

Burnham further education com-

mittee.
ILEA has made clear following the row over Mr Fletcher's letter that

No ruling on recognition complaint

turned away.

Where there has been no univer-ly competition a spokesman for cases engine in the polytechnic

behaved as he did. We also believe

that the courts of two polytechnics

"As far as I am concerned, as the

cies. But even so, students are recommended to take up offers quickly
as courses are filling up and qualified

accept an offer. applicants turned away.

Leicester still has unfilled courses
Newcastle Polytechnic has had to
such as textiles. Where the recession

reject well qualified students. It has affected the career prospects in a streamhined its procedure since last year and has been offering places more quickly which means late applicants with good grades have been turned away.

The allocation of polymerhale The allocation of

although one faculty had asked for up to seven points for degree courses and three for HND courses, this reflected a natural upward progression.

In this respect, mechanical and production engineering have done well whereas in sciences, although higher grades were asked for, modest grades have been sufficient to get acceptance. Business courses, economics and social sciences have been sity competition a spokesman for cases earlier in the session also higher than last year. asking for several A level points

Bias of sociology courses attacked

On the OU, the authors say that A bitter attack on "politicized sociology taught as religious dogma" is contained in a wide-ranging book of essays on educational policy published this week by the Centre for Policy Studies.

The book, The Right to Learn, sets out to "promote more information, more choice, more accountability, and more diversity" in education. The authors conclude by suggesting that the number of sociology de-

ity, and more diversity" in education. Student loans, education vouchers, and a review of tenure, are ideas advocated by the authors, many linkthat the number of sociology de-partments and students should be to one made by Lord Rothschild in his review of the Social Science Re-search Council. The authors also ed to the Conservative Party.

The book also contains a section repeating criticism of Open University courses and alleging that some have been "so politically biased and intellectually weak as to cause great disquiet". The OU is currently dis-cussing criticisms of certain courses with the Department of Education and Science.
Editors Caroline Cox, director of

the nursing education research unit at Chelsea College, London, and John Marks, senior lecturer in physics at North London Polytechnic, say they are out to challenge "left wing wisdom". They say: "For too long educational experts of the left have held the initiative." leld the initiative."

In an essay on teaching sociology,

the editors say the subject "if appropriately taught" can make a valuable contribution to the education of medical, nursing, teaching, and science and technology students. But they warn that sociology can be a wolf in sheep's clothing - offering Marxism or ideologically bigoted socialism in academic dress.

The profession should be wary of "ideological imperialism" many sociologists who were many sociologists who were appointed during the expansion of the 1960s when very young and academically immature. With the current decline in the subject these people were looking for new fields to conquer, the editors say.

The authors single out a number of academics including Professor Ralph Miliband, formerly of Leeds University and Professor Stuart Hall of the Open University. They accuse them of "massive selectivity in refraining from subjecting socialist societies" and John Marks, £6.95 plus 65p posting from subjecting socialist societies"

ing from subjecting socialist societies" age from the Centre for Policy Stuto comparable criticism made of capides, 8 Wilfred Street, London SW1.

New blood scheme

should be younger than 35 if normal

This contrasts strongly with com-

SERC estimates there is a shortfall

ing that just 32 of 165 departments

were positive about taking on new staff in the next few years, th SERC

estimates that in five years there will be a shortfall of 500 in engineering

and technology, 200 in biological sciences, 200 in mathematics and computing, 175 in physics, and 175 in chemistry.

Secretary named The former vice principal of the now-closed Hamilton College of Education

Using the results of a survey show-

considered

continued from front page

of 450 young scientists.

Cancer smear amended again between reported and endorsed The Labour Party this week further views. But Mr Phillip Whitehead, the toned down references to the "can-cer" of Oxbridge in its leaked draft

reduced, a similar recommendatio

want the subject restricted to post-

graduate students, and taught by

staff who have had work experience.

nance costs and possibly a proportion

of fees should be met by loans rather

than automatic grants. A significant number of higher education state scholarships should be introduced to

The editors also say academic te-

nure should no longer be automatic.

They concede it is not easy to deter-

mine the right size of academic com-munity needed to preserve and extend

Professor Stuart Hall said this

week that if there has been any selectivity in his research into the

media this was because his studies

were exclusively concerned with Bri-

"I am on record as being deeply

critical of many aspects of East European societies so if the authors

are making that implication they do not know what they are talking ab-

out. I hope that everyone will recog-nize that the authors themselves are

cover full costs.

knowledge.

In another essay, the book recommends that most student mainte-

document on post-18 education.

Prompted by fears that the debate

needed.

The rest of the document was left rompted by foars that the debate could be deflected by concentration on what was only included as an illustration of criticisms levelled at Oxbridge, the party's powerful home policy committee decided on Tuesday to make absolutely clear that this was a view not endorsed by the party's national executive committee next Tuesday before publication in November.

The rest of the document was left unchanged by the committee, and it will go to the party's national executive committee next Tuesday before publication in November.

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party. versities have experimented with The education sub-committee had different methods of entry in recent earlier tried to stress the distinction years.

| 'Give Falklands to Argentina'

Seventy-three academics have signed a statement asking for the return of the Falkland Islands to Argentina.

They point out that the use of force

They point out that the use of force by both sides has not led to a solu- Furlong, of Cambridge tion of the conflict, and call on the is expected to cost £140,000. parable statistics in the 1960s boom scientists and 36 per cent of all engineers were under 35. Even now the

The resolution was sponsored by Peter Worsley, Professor of Sociolo-Peter Worsley, Professor Manchester continuous period in schools attached gy at the University of Manchester, continuous period in schools attached and David Lehmann of the Centre of to a member of staff, who will also Latin American Studies at the Unibe responsible for assessment. Minis-

Latin American Studies at the University of Cambridge. Around half the signatories are British; all are Latin American specialists.

They see the Argentine claim to sovereignty as the only viable one, given the tiny population of the isgiven the tiny population of the ishlands, but insist that islanders who choose to leave be compensated, and that those who stav be guaranteed the responsible for assessment. Ministers are expected to steer more institutions into this practice if results are successful and possibly to expand the experiment into BEd courses.

Dr Rhodes Boyson, who thought up the scheme, hopes to produce still more overtly school based teacher training as a result of the project. He envisages a new category of a that those who stay be guaranteed that those who stay be guaranteed cultural freedom and a degree of participation and regional autonomy.

Despite a shared distrust of the processing the control of the Despite a snared distrust of the leges and teacher training departhas been appointed general secretary of the Scottish Further Education Association. He is Graham Alison.

Despite a snared distrust of the leges and teacher training departments.

The project itself has been delayed of students. the course offer so were the contract of the source of

University bus campaign takes to the road Oy Ngaio Crequer

A new campaign launched this week
by university teachers, involving the slogan was political and spent
advertizing on London buses and the
Independent learny three weeks discussing the
Independent learny had to be abancopy, according to an Association of

The campaign involves advertizing the slogan "Britain needs its universities," on the outside of buses, later it will extend to Glasgow, Manchester, Sheffleld and some other centres, and there will also be 1,000 advertizing cards taken out on the Underground.

BRITAIN NEEDS ITS UNIV

Underground, nearly had to be abandoned because London Transport objected it was "political".

Hearly three weeks discussing the copy, according to an Association of University Teachers source. Eventually it had to go to the LT board before

tee of Vice Chancellors and Principals

has falled to do. It will point out the myths that there are too many universitles; that more means worse; that re-search is not relevant to the country; that demand for places has slackened education; and that university teachers are privileged, with secure jobs.

Tory students reject changes

by David Johbins Conservative students have thrown chairmen on to it out proposals for constitutional Almost all delegates to FCS's half-

by Ngaio Crequer

An emergency constitutional conference of the Federation of Conservative Students is now to be held in December. It is being suggested that if that fails to resolve the internal crisis a new constitution may be appointed" at the outcome. It has

nal crisis a new constitution may be imposed from Conservative Central Office so that next year's elections can be held.

The most contentious proposal put forward by a working group chaired by Mr Donald Walters, chairman of the National Union the party's different party di

tion and Science. scheme the pilot project, based in two manded.

universities, polytechnic and an insti-

changes drawn up by senior party yearly conference in Cardiff dismismembers in an attempt to restore sed this as unworkable, but they confidence in their national organizastudent affairs committee.

by Mr Donald Walters, chairman of the Stident Stident

ference and bring the 13 regional tion and impose it on us. Although I have faith in the party if it has to do

solve the problems among ourselves."

Although Mr Walters carefully avoided being seen to force his working group's proposals on the conference, he was said to be furious at their rejection. The Oxford and Birmingham University associations. which are among those threatening to withdraw from FCS if reforms are not implemented, were also dis-

The "wets" and the right wing Monday Club faction combined to secure the election of one of Mr Monteith's political opponents as final chairman of the student affairs committee. He is Mr Roman Scuplak

Schoolteachers to monitor Courses trainees in the classroom

Schooltenchers are to become higher by a year and will start in 1983 because of resistance from the on Post Graduate Certificate in Education Post Graduate Certificate Post Graduate Post Gra tion courses under a new scheme launched by the Department of Education and Science. success in degree exams

Schools generally have welcomed the opportunity to participate, as have the schoolteachers' unions. But only the two university departments cluded in the project in the coming knows, is the only answer.

Although the scheme will be seen as an attempt to restore the professional elements lost by the government's rundown of the BEd, it follows a survey of teacher education courses by Hcr Majesty's Inspectorate which is said to show that most BEd courses have little more professional content than their one year postgraduate equivalent. The inspectorate is now engaged on a full examination of

will run courses similis

year.

teacher education courses nationally. Professor Hirst's team will produce annual reports to allow further progress before the end of the project. It will follow students through the PGCE and into employment.

A final report is expected by March 1986, based on a single intake The second of the second

A good record by any standard. Hi achieved, not by full-time students as you might expect, but by Wolsey Hal The secret? Just good, honest, very personal tuition, which, as any teacher

The following London Universit courses are offered: BA Hons English, French, History, Geography Philosophy: L.L.B., B.Sc. Econ, B.D. Diploma in Education. In addition wide range of GCE courses for a Boards is available.

For full details please write or tele phone, stating your exam of interest, The Hon. Frank Fisher, CBE, MC, MA, Principal, Dept B 5, WOLSEYHALL, OXFORD OX26PR.

Tel (0865) 54231 (24 hours) Wolsey Hal.

Divisions and misunderstanding between the two main social work courses, the Certificate in Social Ser-

73,000-member National Association of Teachers in Further is keen to gauge the views of local authorities, employers, staff, and so-single qualifying course could meet the general and specific needs of social workers by using a modular

the Central Council for Education and Training in Social Work which staff motivated to work with particuand Training in Social Work which has set up an official review to find if the COSW and the CSS courses are still the most appropriate in a climate with a "core of knowledge" equip-

cial work lecturers on relations be-tween the two courses. "Policies extra modules taken.

The CQSW course is regarded as a general professional qualification for social workers, while the CSS was introduced in the 1970s to provide anced work should be available in the course of the cours workers, largely unqualified, in diffe-rent areas of the profession.

sidential, day care or field-work, have much in common.

vices and the Certificate of Qualifica-tion in Social Work, should be eli-minated and the courses merged into one, according to the main college lecturers' union.

The 73 (RR member National In practice the two courses have taught mainly in colleges of further education aimed at residential and day-care workers, and run jointly

Ms Janey Rees, Natfhe's education secretary, said: "A single qualifying course based on a modular structure would meet the needs of both professional social workers anxious to

of contraction rather than expansion.

After 10 years of work the council is keen to gauge the views of local authorities, employers, staff, and so-

which were appropriate in the climate of the early 1970s may need to be modified for the 1980s, it said.

The union also proposes the course should be for two years if taken full time, or three years otherwise the course should be followed by a state of the course should be followed by a state of the course should be followed by a state of the course should be followed by a state of the course should be for two years if taken full time, or three years otherwise of the course should be for two years if taken full time, or three years otherwise or the course of the course should be for two years if taken full time, or three years otherwise or the course of the course specialist centres in higher education.

orkers, largely unqualified, in diffe-ent areas of the profession.

Nathe believes the two courses

September, and a response is not september, and a response is not september. have led to divisions within the profession, and misunderstandings about review coincides with a current the relative status of the two qual-

Last minute university admissions may be delayed

Last minute university admissions may be delayed if secretarial and clerical staffi respond to a strike call from one of their union leaders in support of the health workers.

All campus unions are being asked to take sympathy action next Wednesday in line with the TUC plan for what may be the biggest demonstration of trade union solidarity since the 1926 general strike.

In most cases the type of action is being determined locally, because unions such as the Association of University Teachers and the National and Local Government Officers' members to strike without going

through tortuous procedures.

But Ms Rita Donaghy, chair of Nalgo's national universities' committee, said: "We have authorized our members to take whatever action they think is appropriate, but I mean a one day strike, although it is up to branches to decide whether they heed that call.

"I would like to see them all standing on hospital picket lines, and ask them to bear in mind that if we are not seen to be supporting the health workers' case, our case over our pay claim, which is going to arbitration, is not so strong."

branches vote for it by the majority by union rules.

"It is essential that we demonstrate the maximum degree of support for the nurses and hospital staff who are in the midst of a major fight with the Government." said Natfhe general secretary Mr Peter Dawson. "I would like to see them all stand-

Stubbs recommended this at a special

meeting held on Wednesday in time

to meet the deadline set by the Department of Education and Science for

responses to its proposals on teacher

If Nalgo members - particularly computer operators - were to strike for 24 hours the final stages of the clearing house operation for universi-ty places could be delayed, although lost time could be made up fairly

will not have started, the effects of Stage fright may be a thing of the industrial action by other groups will not be as crucial. Academics have been asked by their union to support the action, and manual workers and technicians will also be involved.

the action, and manual workers and technicians will also be involved.

The National Union of Public Employees branch at Nottingham University has already voted in support of action and members hope to travel to London for the mass rally.

In the colleges and polytechnics. In the colleges and polytechnics, lecturers are being urged by their union to support the action. The leadership of the National Association of Teachers in Further and Higher Education has authorized in the Sam.

In the colleges and polytechnics, for a new production and fliming for dents have been proved false in a major research project being carried out by Dr Tony Keenan, a lecturer at Heriot-Watt University, who is examining their career aspirations, and expectation of Higher Education has authorized in advance withdrawal of labour where branches vote for it by the majority thought I did," she said. She left sheet at 15 after material labour metals and thought I did," she said.

No extra places could be Speech and Drama, accommodated at the other two The concentration

ILEA advised to save 80 primary places

Education officer Mr William

Unions fight 'internal' appointment

Campus unions at the New Universi- hand in a petition rejecting his claim ty of Ulster have warned that they will not recognize as properly appointed the vice chancellor of Northern Ireland's new polyversity if the choice is made internally, rather than by comparation. than by open competition.

They have protested strongly at the Government's decree that and internal candidate should first be sought for the post of vice chancellor of the university which will be creed that the post of vice chancellor of the university which will be creed that the post of vice will be creed to be sought for the university which will be creed to be sought for the university which will be creed to be sought for the university which will be creed to be sought for the university which will be creed to be sought for the university which will be creed to be sought for the university which will be creed to be sought for the university which will be creed to be sought for the university which will be creed to be sought for the university which will be creed to be sought for the university which will be creed to be sought for the university which will be creed to be sought for the post of the university which will be creed to be sought for the post of the university which will be creed to be sought for the post of the university which will be creed to be sought for the post of the university which will be creed to be sought for the post of the p of the university, which will be cre- The group of unions under the

ous precedent of government in- strongly for open competition. terference in academic appointments.

Treading

the boards

secretary of state for education, to

candidates has now put in jeopardy

ated by the merger of the Ulster umbrella of the Irish Congress of Trade Unions erected the news of The decision was taken against the advice of Sir Peter Swinnerton-Dyer's steering group, which is plan-utter rubbish" Mr Scott's fears abning the merger. The majority view out the effect on staff morale and was that the move created a danger-pointed out that the staff had argued

There have also been complaints that minister has been heavily influenced "It is also our belief that the the polytechnic is exercising an effec-tive veto over the workings of the in his decision by people who may have a vested interest in the outsteering group.

come, and such pressure is to be NUU and Earlier this week the unions at deplored when it is clearly against union said.

AUT expressed concern about the decision and asked for an assurance that the steering group was not " mere puppet of government but will be able to maintain its independent rolein pluming for the new institution"

However, the Association Polytechnic Teachers welcomed to guidance Mr Scott had given on the subject and argued that the unnerving period of uncertainty should be

given in July by the minister that there should be no compulsory re dundancies. Our members favoured in principle wide advertisement for the post. APT is willing, in view of the assurance given, to accept that the new vice chancellor should be drawn from current employees of the come, and such pressure is to be NUU and Ulster Polytechnic," the

Councils urged to liaise with industry

Iwo deadlines, some encouragement and a first public warning are issued to local education authorities y the Department of Education and Science this week, in a circular dealing with the Youth Training Scheme.

The circular emphasizes near the beginning and repeats in conclusion the need for liaison and cooperation etween LEAs, local industry and commerce who are intended to supply most of the training places when he scheme starts next year, and the Manpower Services Commission which is responsible for organizing

In particular LEAs must look at the need for accommodation for the anticipated 40,000 trainees next year - almost a quadrupling of youngsters on Government schemes last year.

"The secretary of state recognizes that there is pressure on FE accommodation in some areas," the circumodation in some areas, "the circumodation in some areas," ar says, "and that LEAs will need to xamine carefully the accommodation available to them. . . taking into account the possible use of school

LEAs are asked to submit details

department by October 15 to help MSC planning, with numbers of pro-jected trainees in 1983 and 1984, and the cost of possible expansion.

The circular's second deadline for LEAs to arrange staff develop-ment programmes for trainers on the YTS, asking the authorities to ensure that all regional advisory councils provide the department with their plans for staff development by the end of the year. Responsibility for training lies

locally, the circular emphasizes: there is praise for LEAs already using MSC funds for training and conirmation that no extra government money will be provided for central

training.
"The secretary of state calls upon authorities to ask the heads of all institutions likely to be involved in YTS work to establish groups of staff to undertake such work and to help such groups identify their own staff needs," it says.

The youth service is also put forward as a source of expertise in dealing with youngsters likely to use the YTS. But LEAs doing less than the of their accommodation plans to the fall foul of the department.

Wrong idea of engineering

work motivation and expectation of company training schemes. The work is being sponsored by the Social Science Research Council to the tune of £35,500 and is expected to take four years and involve between 500 and

600 engineers. Reporting his initial findings to a meeting in London of employers and academics arranged by Education for Industrial Society. Dr Keenan said engineering graduates were among the most dissatisfied with their start in life. However the idea that this was caused by over-gaperness to get into Inner London Education Authority members have been advised that 80 extra places for training primary teachers should be saved – the equivalent of courses at one of the proposed expansion of the proposed expansion of the proposed expansion of the primary training sector as a whole.

He said: "It is important to ensure that there are equivalent to ensure the education committee, said before the education committee.

concede that it was most appropriate, a proportion that rose to 70 per cent after six months on the job. Some 12 to 18 months later 76 per cent said they considered their academic preparation had been adequate.
There were notes of criticism, with

some 20 per cent complaining of too much laboratory work. The basic scithought about right but nearly 70 per cent complained that they had received too little engineering practice, 43 per cent too little design practice and 40 per cent regretted lack of a foreign language.

ath Bank would require considerbasic research was mistaken - this attracted only a few.

caused by over-eagerness to get into basic research was mistaken - this attracted only a few.

asis according to discipline: civil engineers considered they had been considered they had been considered to an overdore of an overdore of an overdore. he said was "excessive" in the light of the proposed expansion of the primary training sector as a whole. He said: "It is important to ensure that there are enough primary teachers who have been trained in areas which expose them to the circumstances which they will experience in their future careers."

That authority also believes that the That authority also believes that the Proposal for 80 exhibits a place of the proposal for 80 exhibits and councillors might well consider making representations for more teacher training places.

On secondary teacher training the convert from part-time to full-time courses.

Councillor Neil Fletcher, the chair-and higher education committee, said before the maceting that the proposal for 80 exhibits a place was very modest and councillors might well consider making representations for more teacher training places.

That authority also believes that the On secondary teacher training places.

On secondary teacher training

Avery Hill.

Mr Stubbs explained in his report that this would mean a cut of 165

Accommodated at the other two teacher training colleges since Avery that this would mean a cut of 165

The concentration of religious teacher training in church colleges was also a source of concern.

1947.

Professor Jones was director of scientific intelligence during the war week the case was suspended for six weeks.

Retired professor faces eviction

Retired professor faces eviction

Recommend any action. But concern was expressed at the loss of physical education at the Darlford site of Thumes Polytechnic and speech and drama at the Central School of Speech and Drama.

Retired professor faces eviction

Professor R. V. Jones, who retired last September as professor of natural philosophy at Aberdeen University, is facing eviction from the university-owned house he has occupied since speech and Drama.

Retired professor faces eviction

Claims that the house, valued at over £200,000 and rented for £820 a year at a rate fixed in 1980, is occupied under a binding lease from the university-owned house he has occupied since the Rent Act.

A passport Opponents prepare for battle over CND to flexible education

by Karen Gold

A unified system of course accreditation and interchange starts in Man-chester this month, with the first term of the city's Open College Fed-

eration.
The federation, linking all tertiary education institutes, was established by Manchester City Council at the end of 1981, after over a year of discussion between the city's higher, further, adult and community educators on the possibility of a flexible credit transfer system.

They agreed upon an open college comprising four levels of course; basic literacy and numeracy, post-basic education, O level and related courses and A level standard courses. A governing body with representatives from all the institutions resentatives from a tack market re-although with no power to inter-vene in the running of individual institutions – accredits each course and decides which level it is to reach.

For this first year no new courses have been created. Most of those accredited have been at the lower levels, but the federation hopes to increase advanced level accreditation and to set up new courses to fill

gaps in provision.

Students can enter and leave the college at any level. On registration they pay a small fee for a "study which records their courses and credits. For each credit 50 hours' work, including private study, will be required, with more private study and tutor-marked assessment at the

The governing body's course recognition committee has set up six and Israel.

Ironically British libraries, particupanels, to cover combined studies, humanities literature humanities, literacy, numeracy, science and technology and social science and business studies. Panel members will come from federation institutions, which include four universities - Manchester, University of sities – Manchester, University of Manchester Institute of Science and Technology, Salford and the Open University – Manchester Polytechnic, Manchester College of Higher Education, all the city's centres and colleges of adult, community and further education and the Workers Education and the Workers Education. education and the Workers Educa-

The local Chamber of Commerce and trades council are also represented: the federation's initial aim, to be allowed to die, and I hope more be allowed to die, and I hope more increase access to higher education, has been enlarged to the hope that their passport will help students into

jobs.
The adult literacy and basic skills unit and the Government's further

Sir Keith money to support a federation organiser to find suitable classes.

Manchester 16

was sending observers to the governing body, and the federation might eventually spread throughout Greater Manchester.

It differed from the Lancashire Federation which became at Nelson.

Federation which began at Nelson and Coine College, in that Manches-Government's decision in 1980 to

wide range of courses accredited, as part of a process common in the United States, so people can decide if they want courses for recreational interest on the proposals for other subjects by the end of the year after similar stateinterest or as a route to further study."

by David Jobbins

Of those concerned," he said, adding that it was open to next year's union's decision to affiliate to the annual conference to change the definite union's history. Campaign for Nuclear Disarmament cision if union members thought this

this week launched their counter- was the right course. Dr Peter Knight, a past president Their aim is a special conference of the union, said: "Since annual to authorize secret postal ballots on both CND and a rule change made at the National Association of political objects and affiliated to at the National Association of Teachers in Further and Higher CND, many members have been ducation Conference in Newcastle profundly disturbed at the priorities

But they were immediately criti- Dr Knight, with several other cised by the president of Natthe, Mr prominent Natthe members, is coor-Chris Minta, for being "diversionary dinating a compaign to secure and divisive" when the union was enough, signatures to requisition the fighting to save jobs.

conference. If they secure the re"It calls into question the priorities quired 6,710 signatures of fully paid bership is unhappy."

mutual distrust between different

cultural groups.

Approval for the first series of

of the advisory council of the Inter-

national Centre for Inter-Cultural

Studies (ICIS) in Bradford, where

one in six people is an immigrant or

The courses will strive to explore

the mismatch of views between diffe-

rent groups in British society, involv-

frankly exchange personal experi-

workshops where people can

of inmigrant descent.

courses came last week at a meeting

Dr Knight said: "Conference was not accurately reflecting the feeling of the members. It is important that these issues are resolved quickly and unequivocally and a postal ballot is the most democractic way of doing

But Ms Sandra Peers, who moved the CND motion at the May conference, commented: "It is not true to say the decision was undemocratic. The executive bent over backwards to let branches know what they had in mind. I am very doubtful whether colleges this week.

The leading Nathe members be hind the move - in addition to Dr Knight - are next year's president Mr Cecil Robinson, last year's president Mr Malcolm Lee, national treasurer Mr Bill Easton, national executive members Dr Roger Adams. Mr Bill Hoad, and Mr Albert Clyde, and national council member Mi Bob Boyd.

At the May conference the rule change was carried by 257 votes to 118, achieving a two thirds majority. No count was taken of the subsequent vote on CND but it gained a abstantial majority.

overseas doctors are being

The centre has been established as

an independent unit with funds tota-lling £19,000 from Bradford Coun-

cil, the Hilden Trust and the Rown-

tree Trust. It hopes to get further

backing from other local authorities and foundations.

The impetus came from an inter-

national conference at Bradford in 1981, fuelled by the inner city riots

last summer. At the inauguration of the centre in July Sir George Young,

ninister with responsibility for race

affairs, stressed the need to break

Centre to erase cultural barriers Now Yiddish s planned for January, and furthe can be Police cadets and their trainers will masters, ward sisters, school govtake part in the first course at Brad-ford University's new international ernors, local government officers, prison and probation officers, and

and literature is included this autumn in the modern Jewish studies course at Oxford University.

Chosen too

This is the second time Yiddish has This is the second time Yiddish has been officially included in the syliabus of a United Kingdom university. Queen's University, Belfast, has had a Yiddish option in its German degree course since 1978.

Yiddish, the language of central European Jews, spread throughout Europe and to America as the Jewish community migrated. But it has nev-

community migrated. But it has never really taken off officially in Britain, partly, it is said, because British Jews preferred to play down their

and tutor-marked assessment at the higher levels.

Accredited classes will remain open for non-federation students; their involvement is safeguarded by the registration system which continues to enrol all students and asks those wanting open college passports to register afterwards.

The governing body's course recitable and tutor-marked assessment at the higher levels.

In British universities study has concentrated on Hebrew, the language of the Old Testament and of modern Israel. But Yiddish, now about 1,000 years old, is enjoying sometimes to enrol all students and asks those wanting open college passports.

The governing body's course recitable and tor, said the real problem now was to tackle mutual distrust between the police and the community. It is not just the community. It is not just the police, the community does not thing of a revival particularly in North America, which now has about 1,000 years old, is enjoying sometimes to register afterwards.

The governing body's course recitable and tor, said the real problem now was to tackle mutual distrust between the police and the community. It is not just the community. It is not just the police, the community does not thing of a revival particularly in North America, which now has about 1,000 years old, is enjoying sometimes to register afterwards.

The governing body's course recitable and distrust between the police and tor, said the real problem now was to tackle mutual distrust between the ICIS and the chief on the community. It is not just the community. It is not just the community does not the community of the community of the community of the community. It is not just the community of the community. It is not just the community of the community

larly the Bodleion in Oxford, the British Library in London, and various college libraries in Cambridge, hold some of the rarest and finest Yiddish works in the world.

studies at the Oxford centre for post-

the Rhine, was spread through the Crusades and the Black Death but has never been an official language. There is a new feeling that it cannot options start in Britain, "Mr Katz

Manchester's senior assistant education officer, Mr Michael Sterne, said interest in the college had been shown outside the city; in particular North Cheshire College was sending characters to the college was sending characters.

and Coine College, in that Manchester had no set pattern of courses for students to follow, he added.

"I think it will have a dramatic effect on our whole attitude to the provision of adult education. Our intention is that there should be a very wide range of courses accordited as changes.

proposals for other subjects by the end of the year after similar statements of intent have been circulated to centres and national bodies.

A decision on whether or not to Creche course

Care for children during adult education classes is the subject of a national conference organized by the Women's Advisory Committee of the New Examination Canada and the new Examination Canada and the new Examination Council adult to the new Examination Canada and the new Examination an Women's Advisory Committee of the Workers' Educational Association in London on Saturday September 14.

 $(x_1, x_2, \dots, x_n) = (x_1, x_2, \dots, x_n) \cdot (x_1, \dots, x_n) \cdot (x_1, \dots, x_n) \cdot (x_1, \dots, x_n)$



Sir George Young: race affairs

Dr Gajendra Verma, reader in intercultural education and ICIS direc- understand the role of the police

down barriers between groups. "Our objective must be through

sidered.

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Tel: (Home) (Work) Existing Frizzells Motor Insurance Policy Number, if applicable. Please give details of any other Rescue Service to which you belong. Organisation	ı	Address
hone (Work) Existing Frizzells Motor Insurance Policy Number. If applicable. Please give details of any other Rescue Service to which you belong. THS 19:02	nches:	
- I	ster hone	(Work) Existing Frizzells Motor Insurance Policy Number. If applicable Please give details of any other Rescue Service to which you belong. THS 1992 Organisation

The second of th

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C?

In inner London the proposals would mean the closure of initial teacher training courses at Thames and North London polytechnics, a slight expansion of courses at the Polytechnic of the South Bank and Polytechnic of REd courses at the courses at the places are either North London or Thames Polytechnic. an expansion of BEd courses at

Migrant teaching

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North American news

Saxon steps out of the spotlight

PALO ALTO
David Saxon, 62-year-old president
of the University of California has
decided to step out of the spotlight
and return to teaching physics because of his "instinct for self-preservation"

"I am conscious of the fact that many people stay on for too long. I still feel enthusiastic about being i president. I don't want my idealism to evaporate," he said.

Saxon began his term as president

of the multi-site system that has been called one of the world's finest public education systems in 1975. He has presided over an institution that in-lades 125,000 students, 97,000 employees and 6,500 faculty members including 15 Nobel laurentes on its nine campuses and five medical

His salary is \$91,520 a year.

During his tenure he has battled with California governor Jerry Brown over his attempts to try to make the regents cut ties with two US Departing and Energy pupils of Energy pu at Los Alamos, New Mexico and Livermore, California.

legislature. During the last few years sive job," he said. the legislature has enforced in-

creasingly stringent cuts in the university's \$1.2 billion budget.

The legislature is currently proposing that fees be charged for students entering the professional schools of business. business, engineering, medicine and law. President Saxon is against forcing students to pay any tuition.

He calls Proposition 13, designed business, engineering, medicine and the entire system.

Saxon will continue as president until July. The chairman of the board of regents, Glenn Campbell,

He calls Proposition 13, designed to lower taxes on private property, "a wound of staggering proportion" for California. "It has proved much too blunt an instrument. The measure reduced the taxes on my house in Los Angeles by a factor of 3. But insufficient attention was paid to the needs of schools," Saxon says.

Despite the need for continuing budget cuts, the UC president remains firmly optimistic. He finds an emerging concensus about the importance of education. "We have

Peter David, North American Editor, The Times Higher Education

Supplement, National Press Building,

Washington DC 20045; Telephone: (202) 638 6765

Room 541,

emerging concensus about the importance of education. "We have lived through 10 years of disenchantment with the schools. The state board of education is taking a harder look at our poorly prepared students. We must start working with youngsters on all levels and particularly in grade schools. It's too late to start in junior high school. It takes 15 years to produce engineers from minority backgrounds."



When questioned about his role in affirmative action, Saxon says that the problem is enormously complex.

"When I came to the admitted was vice chancellor at UCLA, it was the beginning of the student unrest over the Vietnam war. Then we moved into a situation of financial pressure. Each year, there is always something."

The student was successfully brough people of diverse origins and transformed them into a successful nation. Ours may be the first truly multi-racial nation. How do people of French or British extraction who are also Americans compare with in the Falkland Is-

Although Saxon believes that he did all he could to see that women Livermore, California.

The university has constitutional autonomy. It is ruled by a 28-member board of regents and not the could have done a far more aggressible less than the less th

Vice president Fretter notes that as a result of Saxon's tenure there is greater cohesion among all the campuses. His practice of regular month-ly meetings with the chancellors has helped bring a broader perspective to

will form a national search committee to seek his replacement.

The president says he is looking forward to teaching again. He will be returning to the University of Cali-fornia at Los Angeles where he be-gan his career in 1947 as an assistant professor in the physics department.

A native of St Paul, Minnesota,
Saxon earned both his bachelor's de-

gree and his doctorate at the Massachusetts Institute of Technology.

Leaders of America's academic science community expressed dismay last week when they learned that the Pentagon had prevented more than 100 papers from being given at an international conference on optical engineering.

The incident, which took place last month but did not attract public attention for several weeks, has

Organizers of the meeting, an of the Society of the Pentagon's move the papers barred was unpresented the decision to block them appeared to have been taken at the last minute.

About one in six papers due to be the Meeting, an annual symposium of the Society of with universities on national security issues, described the Pentagon's action as "both unfortunate and illitimed."

Presidents of leading universities have been complaining for at least a year that the defence-conscious Roagan administration had become too heavy-handed in its efforts to

attention for several weeks, has reopened a sharp debate between the universities and the Department of Defense over the right of academics to publish military sensitive scientific findings.

Mr William Carcy, executive director of the American Association for the Advancement of Science, described the Pentagon's action as a "random strike" against unclassified scientific research.

the last minute.

About one in six papers due to be delivered at the conference were ordered to be withdrawn and many participants were informed of the decision only a week or two before the meeting.

The Pentagon was able to block the papers because many of them reported on work which, while not classified, had been funded by the scientific research.

Officials said some of the information is an essential part of scholarship.

Officials said some of the informa-

Equality ruling unopposed

A long-tunning controversy over the legal rights of women in education took a bizarie turn last week with a decision by the lustice Department not to challenge a lower court ruling which is expected to blunt the time remains to expect the second of the components remains to expect. Government's powers to enforce sex-

nal equality. The lower court ruling came two months ago when a federal judge dismissed a sex bias case against the athletics department at the University of Richmond. In a strongly-worded opinion, Judge Dortch Warriner said the federal government, which had brought the case, had no introduction was remarked. jurisdiction over a university department which received no direct feder

al money.

Civil rights groups, including the government's own Commission on Civil Rights, claimed the Warring a broad decision could decimate a broad range of civil rights legislation. The Justice Department was confidently expected to appeal to a higher court.

Last week, however, Mr William Bradford Reynolds, the attorney general, said the government would not challenge the ruling. He said the Department of Education did not wish to take the case further and the Justice Department believed the Warriner decision to be legally

ment has infuriated women's groups, many of which believe the Reagan dministration is deliberately seeking ways to avoid enforcing long-stand-ing civil rights laws designed to pro-tect the rights of women in educa-

Ms Margaret Kohn, of the Nation-I Women's Law Centre, claimed the decision not to appeal had been taken for political rather than legal reasons. She said the government could have appealed on a number of

strong legal grounds.

The legislation at the centre of the argument - Title IX of the 1972 Education Act - has been a source of legal conference. of legal confusion for several years. The act said that nobody should be excluded on the grounds of sex from any educational programme receiving federal funds.

But educational institutions have repeatedly questioned the way in which the Department of Education has decided whether a programme receives federal money. Many colleges taken to court under the act claimed it was intended to apply only to programmes receiving specific earmarked funds from the federal government.

intended to cover any activity within an educational institution which be-Pentagon censors optical engineering papers

essential part of scholarship.

One of the most important, the

tion contained in the papers required a licence under the International on scientific communication and

Traffic in Arms Regulations before it could be published at an international conference.

But the nature and timing of the conference and timing of the conference and timing of the conference.

But the nature and timing of the incident appeared to embarrass Mr George Keyworth, President Reagan's science adviser. Mr Keyworth, who has been working Dr Frank Press, the academy's president, to investigate government claims that American universities had become a prime source of militarily useful knowledge for the Soviet Union.

gets special cash from Peter David management education in Australia. MELBOURNE Overnment will report referred to rationalization of spend A\$1,870m on tertiary education institutions in 1983, according to tion offered by various higher educa-a report of the Tertiury Education tion institutions around Australia; Commission tabled in the federal parliament last week.

Nearly A\$1,670m will be available for higher education centres and A\$205m for technical and further A\$205m for technical and turtner education colleges. Funds for capital and equipment expenditure for higher education are A\$4.2m more than grammes encouraging wider access to management education; and the management education; and the management education of an Australian foundation level proposed by the commission for 1983. Total funds for the tertiary and further education sector (TAFE) are slightly less than the amount pro-vided in 1982 and A\$12.6m less than the level recommended by the TEC. Recurrent grants for the higher education sectors will be maintained

TAFE Particular Purpose Recurrent Grants will be earmarked for advanced English language instruction for migrants. Technical and further education groups attacked the decision, claiming there was no evidence it would achieve its desired chiefive. The interests of migrants objective. The interests of migrants should not be played off against existing programmes and full additional funding should have been provided. a spokesman for the Association of TAFE Teachers said. He said that in 1983 TAFE would receive only 7 per

the 1982 allowances would fall short of actual cost increases, and adjustment to the allowance to cover the shortfall would be required if the level of activities recommended the commission and supported by the government were to be maintained. But in tabling the report in parlia-ment. Senator Peter Baume, the Minister for Education, made no mention of the government's attitude

Senator Baume also handed down the government's response to a re-port by a committee of inquiry into

Medical ties

with South

Africa cut

from Craig Charney

programmes of management educa- test marches.

the establishment of a second gradu-ate management school at Melbourne University; the concentration of part-time MBA studies in one management school in each mainland state; the provision by other tertiary expected to exert an influence – the creation of an Australian foundation

for management development. The report attracted considerable criticism, especially from the institu-tions which would lose their management education schools.

Senator Baume said the govern-

ment had accepted the recommenda-tion to establish in 1983 a second In a new move, 15 per cent of TAFE Particular Purpose Recurrent a national role at Melbourne Uni-

wealth would provide an extra A\$4m towards the construction of a building for the school but the university nearly a million students enrolled.

Referring to the government's prospective allowance scheme by which anticipated cost increases are calculated and allocated before each cademic year begins. offered well-regarded MBA courses

While the government agreed that there should be rationalization of programmes of management education and of concentrating resources for part-time MBA courses, Senator Baume said there would be no immediate changes until submissions were considered from state authorities and the institutions that would be affected. He said that as for an Australian foundation for manage-ment development, he would put proposals to the government

Students led astray, says media

Summary court proceedings against few weeks, the only references in the Polish students and school pupils official Polish media to the NZS arrested for participation in demonstrations on August 31 have been a few brief notices of former NZS activists who have come widely publicized in the national and role of genuine workers in the pro-

The court reports say the young reople concerned have been "led by "subversive elements" astray" by "subversive elements" and/or foreign radio stations. They significantly ignore one major "subsanned independent students associa-

This reticence is in marked con-trast to Moscow Radio's Polish language service which, only a few weeks back, launched a virulent attack on underground (NZS) groups, alleging that they were pri-marily responsible for the continuation of the protest. During the last

local press, apparently on govern-ment instructions to minimize the saying that the activist was set free after "making the necessary explanareports is clearly that the NZS is now safely dead and buried, an attitude which, the reports on court proceed-ings over the last two weeks, seem to According to NZS's representa-tives abroad, organized activity does

appear to have ceased throughout Poland except for a small cell in Krakow. Members of the party-link-ed Union of Polish Socialist Students however reported at the end of last term that former active members of NZS to form closeknit groups, reluc-tant to mix with their fellow stu-

Recently there have been strong

rumours throughout Poland of a show trial in preparation against Jaroslaw Guzy, former chairman of NZS, and possibly some other leading activists still, like Guzy, in internment camps. For its part, the five person Temporary Coordinating Committee of underground Solidarity continually stresses the need to involve students in its plans for an "underground society" — a programme of political self education, social self help, and continued passive resistance, rather than urging separate student movement.

With the approach of the new uni versity year, the authorities un doubtedly fear a resurgence of stu dent unrest. The sentences of six months to a year imposed on partici pants in the August 31 demonstra-tions, will, Warsaw Radio conmented write off these young peo-ple's plans for the future. Such students, the commentator warned, "are not children any more" and will be held responsible for their actions.

Eire turning out too many doctors from John Walshe DUBLIN Jobs cuts in the health services have shareness in a parameter of the property of t

sharpened a renewed debate about the "over-production" of doctors

Medicine is probably the longest. most expensive and most sought after higher education course in Ire-

people securing a place.
Warnings, over the years, of dimiseeking places. These warnings have decade would have little prospect of recently been repeated by two separate groups of doctors and have been little realistic hope of emigration.

given impetus by the cuts ordered this month by the Government. Instead of the modest expansion The National University of Singapore had to approach its Minister of Education and then petition the Earl Marshal of the College of Arms, in London, to obtain the new coat of that many felt was necessary in the health services, the Government has arms above. This lengthy process, which took 17 months, was chosen after internal attempts to find a new ordered a 5 per cent cut in staff to e achieved by the end of 1985. The ecision affects all health boards. design produced no agreement.

The cost of arms incorporates the symbols of the former University of hospitals and agencies such as the Health Education Bureau and the Vational Rehabilitation Board.

But, even without the cuts, Eire was still turning out too many doctors, according to the Postgraduate Medical and Dental Board and the

gaining specialist experience with a view to eventually returning to settle in Ireland. But these overseas opportunities were no longer available. The Irish Medical Association

group was even more alarmist. It said that at most 210 graduates per land with only the brightest young annum would meet the country's requirements - 160 less than was currently produced. The group warned nishing job opportunities have re-sulted in a small drop in the numbers least 1,600 doctors over the coming

It said that there was a pressing need for the establishment of a manpower training commission with statutory powers to review the situation regularly and make recom-mendations accordingly. "There is no political, economic or personal sense in the current waste of medical man-

There is no immediate prospect of such a commission, but a sub-committee of the Higher Education Authority is investigating the situation. The authority had got a measure of agreement some years ago for reducing the intake of new Irish medical students to just over 300. This has not yet been achieved, and the enrol-Medical and Dental Board and the junior doctors group of the Irish Medical Association.

The board, an advisory body to the Minister for Health, claimed that Eire was turning out 100 doctors more than it needed each year. It said that, in the past, over-production of Irish medical graduates was a way of life and many Irish doctors

The University Grants Commission

In consequence, the UGC is re-

there would be demands from pre-

sequently ask for transfer were denied admission, and others who would make it in medicine and engineering must also yield to those • A charge of racism at the Uni-

level performances, the results of which have been released after their also the Minister for Higher Educa-

Transfers may be approved

The government has repeatedly warned the academic community in

Five lecturers from both instituof Sri Lanka has received "quite a number" of requests from under-graduates for transfer to prestigious tions have been detained under the Two other lecturers face charges of "possessing seditious publications". All publications from the Communist China press and a few form the Soviet Union with the Community China press and a few form the Soviet Union with the Community China press and a few form the Soviet Union with the Community China press and a few form the Community China press and a few form

health.

SAMSA resigned from the international body in 1981, following overseas criticism of its political views are compared to have broadcust student who died were students of the two views.

After the rebels had captured the national radio, a student leader was reported to have broadcust student support for the coup attempt. After the rebels had captured the

University closed in Kenyan Lecturers at the two institutions NAIROBI

have no place in Kenya.

Public Security Act.

Singapore and Nanyang University. A

The University of Nairobi and its constituent college, Kenyatta University College, remains closed and Mr Joseph Kamotho, the Kenyan Minister for Higher Education, has adviced inversities to case specular. advised journalists to cease speculating when the two institutions will be

Another international student body has decided to cut its official ties with South Africa. The International Federation of Medical Students Associations recently voted to end all contacts with the South African Medical Students Association (SAMSA). The South African association rep-

resents medical students at the three Afrikaans-medium medical schools. The country's three English-medium medical schools withdrew after the

crackdown on students

e-opened.

All questions on the fate of the Kenya that Marxism and communist Kenya that Marxism and communist

students were to be directed to him, Mr Kamotho said, because the students took an active part in the abortive August 1 coup against the gov-ernment of President Daniel Arap Moi and in the subsequent looting that followed the breakdown of law

and order. others refused to condemn the defects of apartheid on community questioning in connexion with the United States are banned.

overseas criticism of its political views.

The motion to cut all links was tabled by the Danish Medical Students According to the Coup lead-forces and the Kenya Air Force redeated.

Support for the coup attempt.

In Dar es Saluam, where extradition is being battled, the coup lead-forces and the Kenya Air Force redeated.

It has also pointed out that stu-dents who would have filled the places which went to those who sub-

examining a current rule which pre-cludes students who are following courses of study in a university from levels", has been made by the presigaining admission to more presti-gious courses on the basis of their A University of Colombo, in a letter to

tabled by the Danish Medical Students Association, which had asked the English-medium schools whether SAMSA had changed its position. At a seminar in July, representatives of the English medical students decided to recommend against SAMSA's readmission.

Despite the severing of ties with the mational body, the international federation voted to continue contacts with individual medical schools and faculties, which will enable them to keep in touch with enemies of apartheid.

Torces and the Renya Air Force rebels.

The government said the students of the two institutions to publicly demonstrate their support because "the students of the two institutions to publicly demonstrating their loyalty or publicly demonstrating their loyalty to the KAF rebels.

The Government announced that its loyal forces found several assault to the two institutions to publicly demonstrate their support because "the students of the two institutions to publicly demonstrate their support because "the students of the two institutions to publicly demonstrate their support because "the students of the two institutions to publicly demonstrate their support because with the Moi government."

In a related move, the Ministry of Higher Education has asked its officials to take extra care in selecting books for the literature course.

National medical students of the two institutions to publicly demonstrate their support because "the Students of the two institutions to publicly demonstrate their support because "the students of the two institutions to publicly demonstrate their support because "the Students of the two institutions to publicly demonstrate their support because "the students of the two institutions to publicly demonstrate their support because "the students of the two institutions to publicly demonstrate their support because "the students of the Colorance on the results of a publicly demonstration to publicly demonstrate their support because "the Students of the two institutions to publicly demonstrate their support because "the S

John O'Leary reviews a topical new book by the former vice chancellor of Bradford University

Known in Bradford as Red Ted, Professor E. G. Edwards was a far from conventional vice chancellor. Seript, will accentante the existing trend towards even more complete domination of student places by the He was often to be found chatting in middle and upper classes. the students' union bar and could "Assuming that the universities prove a stubborn opponent of Gov- continue to select mainly on past the students union bar and could ernment or University Grants Com- examination performance we may mittee policy. Bradford was the last readily calculate that the majority of university to introduce discriminatory working class candidates will have fees for oversens students; for ex-

And he adds: "We are now set on a cates that retirement has not altered his radical outlook or caused him to lose touch with the great academic issues of the day. Indeed, the book could hardly be more topical, following hard on the heels of the Labour ing hard on the heels of the Labour in the more topical, following hard on the working class. Notite the middle classes have to relevance and possibility of a much hard the more topical, following hard on the working class. Notite the middle classes have to relevance and valuable step, even a necessarily prove cost-effective, particular in the more topical, following hard on the heels of the heels of the

turn traditional higher education on would require regular annual budget turn traditional higher education on its head, ridding it of the elitism which he finds throughout the Western world and making it available to manual and semi-skilled increases of five to six per cent.

This would not begin to tackle the problem which is at the core of Professor Edwards' book: how to encourage the manual and semi-skilled increases of five to six per cent.

This would require regular annual budget increases of five to six per cent.

This would not begin to tackle the problem which is at the core of Professor Edwards' book: how to encourage the manual and semi-skilled increases of five to six per cent.

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This would not begin to tackle the problem which is at the core of Professor Edwards' book: how to encourage the manual and semi-skilled increases of five to six per cent.

This would not begin to tackle the problem which is at the core of Professor Edwards' book: how to encourage the manual and semi-skilled increases of five to six per cent.

This would not begin to tackle the problem which is at ready too late," he writes.

But while the book provides an outstanding critique of past and present trends, it is less convincing about the future. Having made a good out the future.

The TUC last week decided to breathe new life into the Education

Alliance and recreate a fully compre-

hensive system of education for all ages from the husks left behind by

spending cuts.

verse the decline.

ample.

His book, Higher Education for Everyone, published yesterday, indi-

capable of realization by higher education institutions themselves.

For Professor Edwards wants to



argued case for just the sort of highare cheation system that report inplies.

Over almost 200 pages, Professor
Edwards traces and accounts for the
ment, causing the average cost per
sion in the last 20 years, analyses
the forces which produce social imbalance in the student body, and
puls forward his own recipe for "a

Meanwhile, upwards of 40,000 stupolicy for universal higher education". It is a policy which contes as
no surprise to those who have followed his contributions to various
academic conferences in recent years
and which, he freely admits, is not
enable of realization by higher

The similarity of growth is demand

The subscription of

The responsibility for the ultimate tresi
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are still alive today and by far the of national economic progres to spite the British experience) Profes seen in the last two decades. Professor Edwards describes a steady and remarkably predictable growth for thought, to his proposals follows: most of the last century. Having taken off as a response to the industrial revolution, the growth in sturies are responsed to the industrial revolution, the growth in sturies are responsed to the industrial revolution. dent numbers can be seen as an exponential curve closely following the expansion of the groups which have always provided the vast majority of students. Even the Second West Mass and the following the relevant to those of working day that the standard to those of working day the following the trend to those of working day that the standard to the second to the sec World War caused only temporary backgrounds, reversing the trend is

propelled mechanism of expansion," he writes. "In brief, we may say that the speed of growth of student numbers depends on the number of peo-ple who have already been highly

The similarity of growth is demand throughout what he terms "Little Europe" suggests that individual government policies cannot take the creament policies cannot take the creaming the policies of the polici

have ever received higher education case for higher education as an age

disruption of the curve before emergency measures brought numbers almost precisely back on target.

"We shall suggest that higher education has had an analogous self-propelled recommend of the comment would have more than a relatively marginal effect.

As he admits, the extension of higher education on the scale advacated becomes more than a matter

an optimistic scenario but one which

Research explodes myth of German expertise

Social scientists at Liverpool Polytechnic have discovered that solutions to inner city problems drawn up for German cities will not necessarily work in Britain. Felicity Jones reports

It is not only the Social Science to identify much of significance Research Council which has been which could be transferred," said under threat in the pursuit of voca- Ron Botham. tion-linked, wealth-producing lines of study. Inter-disciplinary social re-search at other educational institutions is also under pressure to prove why it should continue to exist. This is particularly so in the

ly linked to commercial and indust-

ching into the causes of and cures for

ployment.

The results of a long-term Ruhr-Mersey project, involving some 16 planners and social scientists in both countries, are to be published early next year. But the success of the interchange has been scaled with an agreement signed in February at a ceremony attended by Dr Gerald Bulmer, rector of the polytechnic and the pro-rector of Dortmund University, Professor Manfred Müller.

The project has thrown light on the success and failure of policies

Involved the much lauded the circumstances, namely high unemployment, are different.

Similarly, the much lauded the mployment is different.

Similarly, the much lauded the multiple of circumstances, namely high unemployment, are different.

Similarly, the much lauded the multiple of circumstances, namely high unemployment, are different.

Similarly, the much lauded the multiple of condeterminism by which unions and management in Germany have agreed on job reductions in the face of closures has only appeared to for closures has only appeared to more addenies will choose to retire prematurely from the system. But what kind of people are going, and what to, and what do they leave behind?

The project has thrown light on the success and failure of policies

that in a city such as Liverpool, such small scale, macro-policies the Treasury. Under the governrecognized as having a severe inner city problem, a research team looking into these problems sloudd only narrowly escape being axed in the least round of the problems of inner city decay without the backing of comprehensive government planning. narrowly escape being axed in the ernment plunning.

One myth which they contest as a

"Certainly, there has been a great-er degree of responsiveness in Germany from central government to local needs with the possibility of more flexibility. But on the other hand, the system is more inflexibile polytechnics where teaching and re-search have always been more directwas only in 1978 that unemployment

rial needs. And it would seem from was even included in the federal gov-Ball, chairman of the board of the National Advisory Body for Local Authority Higher Education, that the Germany is towards the rural areas ernment's indices of deprivation. limited provision for research is to become ever more secondary in the means that the Ruhrgebiet gets a low become ever more secondary in the polytechnics as they fight for scarce weighting when it comes to government handouts and initiatives.

In spite of the restrictions upon polytechnic lecturers who have greater teaching commitments than their university colleagues, there is valuately the probability of the upon the upon the probability of the upon the probability of the upon the upon the probability of the upon For cause it has been heir to the problems for longer. Merseyside's unemfor double the national average since 1951 and it is now as high as 70 or 80 per cent in some parts. Dortmund's rate is nearer 10 per cent and is relatively recent phenomenon.

The German retraining scheme, Botham and Herson argue, worked because there the problem finding about £40,000 under the Government scheme. He had no problem finding another job.

"I am joining BP to look round the world for them for coal. They wanted someone with an academic background. I think if university life had not changed so dramatically in the past few years I would not have been so interested in going outside."

These was consistently been and the some and have anyone aged under 45.

These was consistently been are for longer the double taking about £40,000 under the Government scheme. He had no problem finding another job.

"I am joining BP to look round the world for them for coal. They wanted someone with an academic background. I think if university life had not changed so dramatically in the past few years I would not have leave to the problem finding another job.

"I am joining BP to look round the world for them for coal. They wanted someone with an academic background. I think if university life had not changed so dramatically in the past few years I would not have leave to the problem finding another job.

"I am joining BP to look round the world for them for coal. They wanted someone with an academic background. I think if university life had not changed so dramatically in the past few years I would not have leave the problem finding about £40,000 under the government scheme. He had no problem finding about £40,000 under the government scheme. He had no problem finding about £40,000 under the government scheme. He had no problem finding about £40,000 under the government scheme. able research being undertaken. For cause it has been heir to the prob-example Liverpool's department of lems for longer. Merseyside's unemtown and country planning is resear-ching into the causes of and cures for double the national average since inner city economic decline.

Liverpool has established close ties

Liverpool has established close ties

Liverpool has established close ties

Botham and Herson argue, worked because there was a shortage of labour and full employment. But it

planning has to become much more the task of the whole of government, both local and central, in a system

The small environmental improvements which have taken place since the results.

All the more ironic, therefore, city's attractiveness, they admit, but

One myth which they contest as a small numbers of students would not result of the project is that there is run. His main specialist course, on the findings of the research has been that to try and transpose too much state intervention in this too much state intervention in this country, will not work.

This may come a continuous course, on country. In Germany they found that regional and central government, "Out of six able young colleagues"

regional autonomy in Germany.

But this is a view which the Liverpool team, after close analysis view with some scepticism. Mr Ron Rothern and Mr Icha Harry have the country a pointed out

ber of companies close down old premises to move into the new sites with their existing staff.

"We discovered that it is very difficult to make any meaningful comparisons between the two countries.

The cumulative effect of the cuts influenced influenced on job satisfaction also influenced in job, the intellectual challenge being replaced by cuts wrang-professor Donald Duff to leave. Professor Duff, professor of applied any serious attempt is to be made to geology at Strathclyde University has revitalize the inner cities.

Better ways to earn a living

Ngaio Crequer finds out what

necessarily means that some of brightest, best and youngest, who will find it easier to find employment

at Aston's management centre has just left to become a senior consul-tant with Coopers and Lybrand

Associates which pays more than his lectureship. He is 36 and began his lecturing career in 1972, at Hull. He has also served as economic adviser to the Department of Transport and

freelance teaching and playing in bands. He has been attending evening classes on the restoration of musical instruments for some time with his new career in view. He takes with him £4,000 a year pension plus a lump of sum of £13,000.

plus a lump of sum of £13,000.

"I was originally going to retire at 65 but in the last two years I thought about going cartler. The interest had gone out of the job.

"Until three years ago things were still developing but now it is very depressing. All you see are cutbacks and cessation of all the interesting work. I became rather disenchanted.

But it would have been more diffi-But it would have been more difficult to do without the four years (enhancement of pension) given by

the university.

Professor Margaret Donaldson, of Edinburgh University is one of those taking up the opportunity to con-tinue to work part time. She will be reengaged for one fifth of her pre-sent time to carry out teaching. The rest of the time she will give up to her own research.

She was given a personal chair in developmental psychology two years ago and has spent most of her academic career at Edinburgh. She is



"I like research and, for me, going is no real hardship. If I was going to be completely cut off, I would hesitate to do it, but as it is it is a better redistribution of my time. I have the freedom to do my research (into children's thinking and language) and I can keep links with the university.

"It did weigh with me that it seems to be a question of some peo ple taking early retirement and others being kicked out. So it looked like a sensible thing for me to do. When people are urging those to go who can do so without personal bandship, this must be considered." hardship, this must be considered"

Another person leaving because he "was asked to" is Professor Sir Brian Pippard, Cavendish professor of phy-sics at the University of Cambridge. "I have been in Cambridge all my life and feel a great loyally to the university. But I am going because there was a general request to every-one over 60. An acknowledged lead-er in his field Professor Pippard is an authority on the behaviour of elec-trons in metals. He is at the Cavendish Laboratory, Cambridge.

"I shall carry on more or less as before. For some years my major effort has been a monumental tise on vibrations, which will take several years more to complete. I shall keep a room in the laboratory and remain a fellow at my college.

"I shall regret not having so much involvement with teaching but by and large I am quite indifferent. But I do regret that universities have brought this on their heads. They have been desperately in need reform but have sedulously refused to do anything about it.

They ought to think what their social role is, to be useful citizens. We still insist we are elitist institutions with every given right to con-duct research and teach students what we think is good for them.

for nearly 17 years, having joined from IPC after starting his working life as a fine bookbinder craftsman.

David Jobbins reports from the TUC conference in Brighton

Working towards a fairer system It carried unanimously a resolution struggle between left and right within Neil Kinnock outlined a problem for which attacked present Government the TUC.

Neil Kinnock outlined a problem for education more entrenched than the speaking of the possibilities of a speaking of the possibilities of a

policies and chastised parts of the labour movement for failing to add their weight and even trying to refire of last year's congress in Black-pool, when the mineworkers pledged their powerful muscle to the

The key paragraph committed the TUC to launching a campaign in the union and labour movement "with the utmost urgency and vigour for a properly resourced fully comprehensive system of education and training which will develop to the fullest or teachers' cause. The heart of the resolution had been drafted in an earlier motion submitted by the Association of University Teachers. This also instructed which will develop to the fullest extent the abilities and potential of every child and young person, regardless of ethnic background, sex, social class or financial status. The previous evening TUC educa-

The first step towards bringing year, a week, a day that people attend work, or by decreasing the number of years we attend work, or by decreasing the number of years we attend work, or tion chiefs had been surprised at the interest evident among delegates in the Education Alliance, launched later when a call from the National a rational combination of both." over a year ago but only now taking its first faltering steps.

Association of Teachers in Further and Higher Education for a legal easy access to facilities for con-

Union of Teachers preach to the converted about the importance of the Education Alliance in defending and rebuilding Britain's education privatization which echoed similar 1980 prices.

He admitted that the cost even of the party's proposals for 16-19 education were vast - £2,000m at 1980 prices. The room was only booked for 45 government services was also roundly

The room was only booked for an injuries, and Mrs Patterson and Mr Jarvis had seemingly prepared their The underlying themes of the low said speeches for a sparse attendance. For there was little time for the meeting and the curse of seemingly ever-ris-

Mr Jenkins – for the rank and file to say what direction they felt the Education Alliance should take.

All the signs of interest were there the following morning for the full-scale education debate. The confermant to delegates how the dealal of university places to 44,000 young people over the years 1981/84 would inevitably set in train a chain bell was full agent though the

to fulfil the role prescribed for it by Mr Jenkins – for the rank and file to among school leavers.

ence hall was full even though the debate was first on the agenda. Education is notoriously regarded as streets without any educational position of the followed the general council line and voted for the status quo on the composition of the followed the general council line and voted for the status quo on the composition of the followed the general council line and voted for the status quo on the composition of the followed the general council line and voted for the status quo on the composition of the followed the general council line and voted for the status quo on the composition of the followed the general council line and voted for the status quo on the composition of the followed the general council line and voted for the status quo on the composition of the followed the general council line and voted for the status quo on the composition of the followed the general council line and voted for the status quo on the composition of the followed the general council line and voted for the status quo on the composition of the followed the general council line and voted for the status quo on the composition of the followed the general council line and voted for the status quo on the composition of the followed the general council line and voted for the status quo on the composition of the followed the general council line and voted for the status quo on the composition of the followed the general council line and voted for the status quo on the composition of the followed the general council line and the followed the

social effects of Thatcherism and Reaganism.

Unless new and modern employment and education policies were adopted the next Labour Government's job-producing reflationary policies could well be neutralized, he warned.

the TUC general council to ensure that the next Labour Party manifesto contained firm pledges on the restoration and improvement of provision at all levels.

The first step towards bringing

over a year ago but only now taking its first faltering steps.

There were few empty seats as delegates packed a large room to hear Clive Jenkins, chairman of the TUC's education committee, Marie Patterson, of the transport workers' party in its "Programme '82" at its own conference in Blackpool.

There were few empty seats as delegated to a year's paid education for a legal trinuous learning to keep pace with the new technologies, while a new "leisure education" had to be developed to fill the non-material rewards previously derived from work and the companionship of the workunion and Mr Jenkins' predecessor, and Mr Fred Jarvis of the National Union of Teachers preach to the converted about the important of the national to be adopted by the Labour veloped to fill the non-material rewards previously derived from work take a sidearial to be adopted by the Labour veloped to fill the non-material rewards previously derived from work and the companionship of the work take a sidearial resource.

But the consequences of not adopting the proposals for the education system were not "genteel decay, abolition of hope for the young, the denial of employment to women and the complete neglect of minorities who have neither the numerical or

speaking of the possibilities of a loose federation between the two untions aimed at meeting the 100,000 member qualifying factor for an automatic sent on the general council. A deal is still a long way off but is an obvious move, for the two memberships added together comfortably exceed the barrier.

It was being suggested that if the only aim of the arrangement was to qualify for an automatic sent, it would not be necessary to ballot the membership first – something which membership first - something which many members of both unions might

A litmus test for the teacher unions this year has been their attitude on peace and disarmament. None of the other teacher unions affiliated to the other teacher unions affiliated to the TUC has gone as far as Natifie in voting to affiliate at national level to the Campaign for Nuclear Disarmament. Only the AUT has come close to Natifie's position but has so far baulked at CND affiliation.

At Righton, the National Union

At Brighton, the National Union to abstain, which left it in the com-pany of arch rivals the National Association of Schoolmasters/Union

Both Natfhe and the AUT were among the majority of delegates who supported a call for the cancellation of Cruise and Trident, removal of all nuclear bases from British soil and waters, and creation of a nuclear-free zone in Europe.

time with a special emphasis on low pay. They also put talks with the Lubour Party on a £90 a week mini-mum wage for adult workers on the Mr Rodney Bickerstaffe, the new

general secretary of the National Uni-ph of Public Employees, formerly the official responsible for university manual workers, later confirmed he had the vice chancellors in mind when he attacked certain employers for their attitude to the low paid. "I feel anger that within the last

two years I have been told by employers on the other side of the table that my people cannot have £60 as a minimum for a full working week while the employers on the other side were on £32,000 a year, £600 a week, £120 a day, £60 a morning."

The congress also called for urgent steps to increase the level of participation by women in union activities and a TUC-sponsored day of action to highlight how it could be done.

Ms Tricia Leman, a member of the Natflie executive and of the TUC women's advisory panel, welcomed what progress had been made but warned: "If you put the measures we bave taken so far against the unprecedented and savage attacks this Government is now making on women and ask if the progress on of Women Teachers and a handful of and adequate the answer must surely

She told her overwhelmingly male audience: "We are not too monstrous a regiment but, be warned, we are organized and organizing and you ignore us ar your peril." For Mr Laurie Sapper, retiring

But the overriding preoccupation of the week was the National Health Service dispute and its relevant Service dispute and its relevance to other low-paid workers and for the universities could make. His sucnext round of salary negotiations.

Delegates rejected cash limits as a opportunity to make a similar assess-"divisive and inequitable" form of incomes policy for the public sector.

They called an the appeal council to a diversionary backwaater from the real opportunity.

At a Fabian Society fringe meeting of union law and the interminable Labour education spokesman Mr of union law and the interminable Labour education spokesman Mr of union law and the interminable Labour education spokesman Mr of union law and the interminable Labour education spokesman Mr of union law and the interminable Labour education spokesman Mr of union law and the interminable Labour education spokesman Mr of union law and the interminable Labour education spokesman Mr of union law and the interminable Labour education spokesman Mr of union law and the interminable Labour education spokesman Mr of union law and the interminable Labour education spokesman Mr of union law and the interminable Labour education spokesman Mr of union law and the interminable labour education spokesman Mr of union law and the interminable labour education spokesman Mr of union law and the interminable labour education spokesman Mr of union law and the interminable labour education spokesman Mr of union law and the interminable labour education spokesman Mr of union law and the interminable labour education spokesman Mr of union law and the interminable labour education spokesman Mr of union law and the interminable labour education spokesman Mr of union law and the interminable labour education spokesman Mr of union law and the interminable labour education spokesman Mr of union law and the interminable labour education spokesman Mr of union law and the interminable labour education spokesman Mr of union law and the interminable labour education spokesman Mr of union law and the interminable labour education spokesman Mr of union law and the interminable labour education spokesman Mr of union law and the interminable labour education spokesman Mr of union law and un

with Dortmund University's Institut für Raumplanung is West Germany. The towns are similar in that they have a declining economic base, traditional industries and rising unem-

The project has thrown light on the success and failure of policies which have been tried in both areas to counteract the urban decline. This has been carried out by means of where investment planning is in-case studies and surveys in specific creasingly sophisticated. localities within each study region and lessons have been drawn from

Merseyside have been a "minor palliative".

Although the local authority would argue that 1,000 jobs have been created through advanced factories, it is likely to be nearer 400, argue Botham and Herson, because a number of companies close down old premises to move into the new sites

Although the local authority would argue that 1,000 jobs have been created through advanced factories, it is likely to be nearer 400, argue botham and Herson, because a number of companies close down old premises to move into the new sites

Although the local authority would the economic factors which can affect the

parisons between the two countries revitalize the inner cities.

been an academic for 28 years, eight of them at Srathelyde.

Now at the age of 55, he has gone to head the exploration side of North Sea oil for British Petroleum. He will be taking about £40,000 under the

ments, may not have anyone aged under 45.

These are some of the grim statistics behind the current "restructuring" or running down of the university system. Aston one of the hardest hit universities, is being forced to let everyone go who wants to and this necessarily means that some of the largest line I injurisities are locally to part

John Collings: better pay

"With staff leaving and not being German policies and institutions to this country, will not work.

This may seem a negative result, but there are many who believe that because West Germany is economically more successful all that is needed to put Britain to rights is to administer a large dose of whatever it is that Germany has.

In this context, supporters of the view have pointed to the large number of small firms and to the greater regional autonomy in Germany.

But this is a view which the Liver
They have therefore given much forcessts, came into that category.

Gountry, lin Germany they found that or Gountry, in Germany they found that or Gountry. In Germany they found that regional bodies have been sharing my interest in the application sharing my interest in the application sharing my interest in the application of quantitative techniques, five have for many years in innovation based for many years in innovation based for many years in innovation based are glar in the last year. Only in one case is there any immediate prospect of a replaced.

"What made my mind up was the fifth person telling me he was leaving. I think it was more the fact that they were not going to be replaced.

"In this context, supporters of the better informed and professional than their equivalents in this country. They have therefore given much better informed and professional than their equivalents in this country. They have therefore given much better informed and professional than their equivalents in this country. They have therefore given much better are many who believe that or inhoration based for many years in innovation based for many years in innovation based in the last year. Only in one case is there any immediate prospect of a replaced.

"What made my mind up was the fifth person telling me he was leaving the professional three out of the was something to entire the place of the large much are fifth person telling me he was leaving the professional three out of the professional three out of the professional three out of the professional three out o replaced, there is a minimum num-

with some scepticism. Mr Ron Botham and Mr John Herson have both been studying the public authority responses to economic decline and conclude that the transference between the two countries have been made too superficially.

In Liverpool about 11 manufacturing firms employ about 50 per cent of the working people. But initiatives to bring small businesses into Merseyside have been a "minor paililative".

Mr Ron businesses and companies. That is missing in this country," pointed out more dead out john flerson.

Liverpool Polytechnic's town and Liverpool about 11 manufacturing firms employ about 50 per cent of the working people. But initiatives to bring small businesses into Merseyside have been a "minor paililative".

Mr Ron businesses and companies. That is more the big non specialist courses, and cutting out the interesting and cutting out the inte

taken retirement from his job as University of London printer, on the academic-related establishment.

"I am not suggesting enormous changes but we ought to evolve so that people respect us. Universities have no friends in the country and it is their own fault," he said. Doubtless some lecturers are going He has been with the university who are glad of the opportunity to

Studying outside the red brick wall

John Sassoon looks at the London University external system which is expanding to meet fresh challenges

The London University system of external qualifications was founded nearly 150 years ago. This system not only lives on but is now expanding and developing in order to meet new challenges born of financial stringency. It can and does fill a need which no other agency can fully

satisfy.
We know that there is a continuing demand for part-time, home-

age group entering A level courses tion of those in continuing education. remains unchanged, then an actually but it they are pursuing a defined expanding reservoir of potential ma- objective by planned, purposive both able and qualified to undertake unimportant and may be more degree courses - but excluded from numerous than we think. them. At the same time, redundancies and early retirements among omission of private study from the academic staff mean that for many list of recognized methods of educa-were also to leave a much smaller years there will be experienced uni- tion is the concept of education external system to provide in future versity teachers no longer in universi-ties - a pool of expertise available to

Flexibility comes from the fact that that what may be learned or acquired by students through their own effort cannot properly be described as education. Few would belittle the the London external system is an examining not a teaching body. The university lays down, for instance, minimum entrance qualifications for each degree, the fees (regietlably going up), a minimum period of study (usually five years), the syllamore perceptive and sensitive than bus and the examination. It says nothing at present about course or mithod of study, though it has done so in special cases in the past and so in special cases in the past and may do so again. In most subjects the students are free to decide for themselves how they will learn or be themselves how they will learn or be affirms the value and validity of self-amount of the students.

taught.

Of the 9,400 external first degree and diploma students in the UK last year, 4,400 (46 per cent) were taking correspondence courses, 1,500 (16 per cent) were taking part-time. mostly evening classes, just over 1,000 (11 per cent) were taking full-time courses in independent colleges, and nearly 2,400 (25 per cent) were studying by "other methods". Whatever their main method of

study may be, all are welcome to apply for one or more of the "vacaon courses" that university extramural departments provide for them. The vacation courses are provided by universities outside London as well. They vary from two day seminars, to a series of linked weekends or a full residential week.

One reason why people today are less aware of the London external system is that surveys of the higher lucation scene scarcely mention it. One example is the excellent Advis-ory Council for Adult and Continuing Education report Continuing

seducation: from policies to practice published earlier this year.

The reason is not oversight – it is more fundamental. These surveys appear to be based on the institutions including correspondence colleges through which "continuing education" students are laught. London University external students may thus find themselves classified as being in further education (advanced of non-advanced), in part-time or non-advanced), in part-time or non-advanced or non-advanced), in part-time or non-advanced of non-advanced or non-advanced of non or non-advanced), in part-time or evening polytechnic classes, as studythere is at least one (and at least one unother.

student has to move from one part of went quickly out of print. Would-be teachers of theory are caught in a vicious circle. To develop courses, ing by correspondence, or perhaps as economic adviser to a Prime In terms of resources employed i they will mostly look in vain for a mention of their status as London University external students which sets the content, the standard and the immediate objectives of their

We know that many external degree students, perhaps as many as 2,000, are studying privately with few

C

Z.



value of teaching in the acquisition

specialized learning. This can be fol-

lowed if they have access to books

and sometimes certain other material

tinuing demand for part-time, home-based study at degree level which shows no sign of diminishing. Present policies are likely to increase this demand. The cuts in the number of new university and polytechnic places seem likely to result in a smaller proportion of the age group being allowed to participate.

Spirit or substance of their discovery of into the undergraduate curricula of function in which a course may be held or by the kind of course being followed study students altogether. This understates the volume of continuing education being undertaken. The private study such coverses because of the low rate of success and the general development. Allowed to participate.

Moreover, if the proportion of the students may not be a high propor-(with a few exceptions) from 1977 ture degree students will be created study the private students are not seas will be closed down after 1985. also and examination centres over-More disturbing than the bare

These two decisions at home and overseas were designed to bring the system into line with thinking in the which this omission implies. This is a for part-time and home-based stuconcept that education is something that has to be given or taught and dents in the UK not covered by the

CNAA or the Open University.
But the policies of the early 1970s have, alas, not persisted. Overseas become dramatically more expensive overseas students to come to study in Britain. In this new situation London University decided in February this year that overseas students who after 1985 were able to come to the UK for their examinations should no longer be exluded from registration as external students. Registra-tion overseas, albeit on this limited basis, has been re-opened.

acquired knowledge. It extends, particularly to those whose commitments preclude the use of conventional means, a route to high and hasis, has been re-opened.

At home, the external system is responding to financial cuts by planning increased academic support for its students; by considering the introduction of the students. duction of specialist diplomas of practical use to those seeking deeper knowledge with a view to advanceand if they are possessed of the qualities of intelligence, determinament or retraining; and by reviewing the range of its degrees and in some cases their content.

There is no question of duplicating what is done in the Open University. particularly to those who The OU provides mainly distance teaching of a high standard for rewant (or need) to study a particular subject in depth. The subjects offered at first degree level include latively general degrees. The London external system offers relatively specialized degrees for which it provides offered at first degree level include in the arts faculty 23 languages and literatures ranging from Sanskrit to English and most European languages, also history, geography and philosophy. In other faculties there are degrees in divinity, law four most and indeed the question of coording.

Just over 900 external students are registered for higher degrees. In 1981 (the latest year for which figures are available) the university awarded 592 educational goals otherwise unattainties. It is the in the years ahead as a path towards educational goals otherwise unattainties, however, is the condificulty of literary theory to

were higher degrees.

The founding of the Council for The author is secretary for external National Academic Awards in 1964 students at London University.

The need to exercise our critical faculties

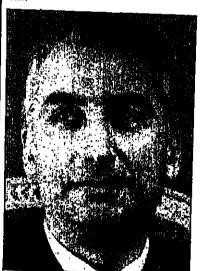
Margaret Coleman argues that literature students should be taught more about literary theory and critical strategy

In the late sixties, a red brick wall in my university town bore the slogar to a professional obsernantism on the Paris today, Leeds tomorrow. Looking back, that rather naive yet nonetheless pungent slogan seems not just to encapsulate the political a sigh of relief at an oppo aspirations of that generation of students. It also represented the excitement of those students in the English school who had just discovered the work of Roland Barthes. Lucien work of Roland Barthes, and the selves, since in many cases it has been the object and end of their feet them. Goldmann and Georg Lukaes, all recently published in English and tion of the ideological and methods offering a new European theoretical logical implications of their own ci-

Nearly 15 years later, the students 1968, many of whom are now teachers of literary studies, appear to have failed in introducing either the

success and the general development of overseas higher education. Regcepticism and reluctance on the part of colleagues and external validating rodies to admit the validity of such courses. They argue students should se studying the literature itself, not how and why we study it.

There also appears to be a view prevalent even among those who feel he need to introduce theoretical and methodological issues into the undergraduate programme that the material is just too difficult. Such views nanifest a deal of defeatism, some of which may be justified since there governments have often not been able to meet their higher education needs to the extent hoped. It has become dramatically accessible and reasonable residuals. accessible and reasonably priced texts for an undergraduate popula-



My own experience of teaching literary theory to undergraduates since 1978 has convinced me that the are degrees in divinity, law (our most and indeed the question of coordination was raised as long ago as 1978. music.

There were nearly 1,700 new registrations in the UK during 1981-82 for first degrees and diplomas and a total of nearly 9,400 external stu-

vicious circle. To develop courses, we need appropriate texts but be-

Apart from these mechanical diffi-culties, however, is the conceptual difficulty of literary theory too great an obstacle in itself? The assumption on the part of a teacher that students The author is senior lecturer in literlack the capacity to understand such

In my view students often breathe a sigh of relief at an opportunity to perspective on the study of litera-tical strategy is a legitimate activity if we are to encourage students to re-

Surely a commitment to study literature for a number of years ought not to be made lightly. Therefore, questions such as what is this thing we are studying, what are we doing when we study it, and how does it relate to other cultural phenomena (in other words theoretical questions) are paramount. The problem for students who lack

access to the discussion of such ques-tions is that they are thereby denied access to a consideration of the valid approaches and critical strategies and the attendant skills and practices. Without such overt consideration in itially of critical and analytical skills (and I have in mind particularly those which may be introduced through language awareness and basic stylistics) the student may have few skills with which to work with the text and from which to develop

which he or she is engaging.

By introducing a range of critical skills and strategies and ultimately linking them to their related theoretical positions, we, as teachers, can demystify the study of literature and make it available to students with a wide range of abilities and attitudes. To leave these things unstated or considered must result in a continued practice of assessing students level f understanding in accordance with their capacity to demonstrate implicit and therefore, mystical codes to which they either become initiated or

Further, the result of leaving ex-pectations about the scope and aim of the study of literature implicit is not necessarily to be liberal and accommodating to all views since we accommodating to all views since we regularly use categories such as "tact", "discretion", "sensitivity to" and "personal engagement with" the text to assess students' progress without explicitly specifying the basis on which those categories rest.

The very vocabulary suggests that moral rather than intellectual qualities are under scrutiny and that what is being measured is students' "fit-

is being measured is students' "fit-ness" to respond to the text. Inviting as it may seem, the "personal response" view does not allow freedom of the individual but, on the contrary, may lead to an intuited apeing of the standards set by the acudemi hegemony. Thus myths about sensility, taste and decorum are per-

A more serious consequence, in lack that "innate" knowledge, whose class ethnic background and gender does not lead naturally and inevitably to the confident expression and application of such values, are at an inimediate disadvantage.

We are in danger of perpetuating not simply intellectual myths but also social and cultural ones about the qualities necessary for success in iterature courses.

Openness in the introduction of critical skills and strategies and their theoretical starting points cannot cause there are few courses, there is

But it can generate consideration of alone change an entrenched system. no market for such texts. Therefore, the aims and scope of literary study so that as students and teachers of literature we can arive at informed conclusions about the nature and purpose of our activities.

lack the capacity to understand such high-flown matters is reprehensible.

ary studies at Bradford and Ikley Community College.

Laying bare the beginnings of the atomic age



Oppenhelmer discusses plans with Major General Leslie R. Groves

Still hostile to Russia, he was eager

struggle, Britain hardly had the re-sources itself to build its own bombs,

and hoped instead to share the

question "What are we going to have

between the white snows of Russia

and the white cliffs of Dover," Chur-

chill may well have been contemplat-

Britain would not use the bomb

into the equation? In some ways that was one of the fundamental ques-

tions of the war. It was clear that the

bomb would change the nature of military power and could well help

start a massive armaments race.

was also evident that there were

several choices that could be made. The United States could exclude

Churchill moved to cement the

America's wartime efforts to produce the atom bomb and questions why it was dropped on Japan

Allan Winkler

discusses



ly concerned with the fundamental questions of the atomic age. Throughout Europe and in the United States nuclear power has been discondebated back and forth, and a number debated themselved to the development debated themselved to the development debated themselved to the development debated back and forth, and a number debated back and forth d of American plants have been discon-tinued or closed down. Proposals for a work, but the British fought to re-

ferment in the United States, the superb BBC series about J. Robert Oppenheimer finally came to an end. to participate in an alliance for com-

Oppenheimer was the scientist in harge of the massive effort to create a atomic bomb during the war. And charge of the massive effort to create an atomic bomb during the war. And the story of his life - its triumphs and its tragedies - opens once ngain many of the questions about how

The television series was successful in developing the background work that was essential before the Manhattan Project - the wartime effort to construct the atomic bomb - could get off the ground. Nuclear weapons were unimaginable until there was a basic knowledge of atomic particles and how they behaved. Scientists in Germany in 1938 were the first to discover that uranium, when hom-barded with other particles, could be split into separate parts. And thanks to Albert Einstein's earlier assertion that matter and energy were part of the early experiments understood that a tremendous source of energy was available, if only it could be brought under control. The United States became in-

volved when Einstein wrote a letter, delivered after the war in Europe had begun, to President Franklin D. Roosevelt. In his message Einstein observed that "it is conceivabextremely powerful bombs of a new type may be con-structed," and he hinted that the Germans were interested in the possibility too. Roosevelt responded by forming a committee to look into the matter, and thus began the major

After several bureaucratic reorganizations, the Manhattan Project the hopes of securing their cooperacame into its own. Over three years tion after the war in developing a it cost \$2 billion (then a huge sum of plan for international control. states and Canada. The task involved much of America's scientific and engineering talent, drew upon similar talent from Britain, and employed 120,000 people. In time scientists produced the first self-sustaining atomic chain reaction in history. Now they simply had to find a way to amass or produce the particular kind of uranium that could be moulded into a bomb, and had to design a way only possible if the Soviet garding and some of the sunction of atomic energy could be used for the sunctional three produced the first self-sustaining atomic chain reaction in history. Now they simply had to find a way to amass or produce the particular kind of uranium that could be moulded into a bomb, and had to design a way only possible if the Soviet garding and the could work. That effort unfolded at Los Alamos, where Oppenheimer played such an important part.

With the sum of the idea of the

People around the world are intense-ly concerned with the fundamental nations dedicated themselved to the

bomb before he assumed the presidency. But now he was informed Prime Minister Winston Churchill about the whole process of develop-And recently, in the midst of such saw the homb as a form of post-war ment, and about the hearing the insurance against the Soviet Union. bomb might have on relations with the Soviet Union, which were then deteriorating all too fast. Secretary of War Henry L. Stimson suggested the formation of a special group to advise on questions surrounding the was the result. That body met several times and

reviewed the background of the project. Aware of the costs involved, knowledge and techniques that emerged. Reflecting once on the mate weapon of war, the committee recommended that the bomb be used recommended that the bomb be used without warning on Jupan. There was some discussion of a non-military demonstration, but that alternative was rejected on the grounds that it might be a flop. Later, when some exclusion of other parties, even allies. At the Quebec Conference of August 1943, Roosevelt and Churhill signed a secret agreement that against one another, would not use it against a third party without the other's approval, and would not communicate information to others. rmed before the weapon was used.

But that was all While Truman, Churchill and Stalin met together at Potsdam in July conference Truman was clearly ex-Russia entirely from the process of atomic development. That might strengthen the American position after the war, but would only lead to Russian distrust of American intentions. Alternatively, the United

Very soon thereafter the hombs

an end. Bohr approached both Churtann part.

an end. Bohr approached both Churtann part.

an end. Bohr approached both Churtann part.

an end. Bohr approached both Churtann point seemed to be the matter of the chill and Roosevelt to try to perchill and Roosevelt t While the television series showed the Los Alamos activity so well, it tended to slight the part the prospective weapon played in diplomatic affairs. The British had long been interested in atomic problems, and an Anglo-American partnership existed from the start. Scientists were exchanged.

Emperor. Would he be allowed to susumptions of those in charge of casily in one war, why might they remain on his throne, or would the abolished? Some institution be abolished? Some varieties in what he had to say. They had little was going on, but they had little was going on but they had little was going on, but they had little was going on, but they had little was going on but they had little

any concessions until the war had

instead? A military attack had long cessful, and American troops were getting closer and closer to the main-land of Japan. The Army was confident of victory. The only sticking point was an uneasiness over the number of casualities that would be suffered in a long and extended campaign. The Japanese had been fighting tenaciously for their Emperor and their homeland, and there was every reason to believe that they would continue to do so, even with

their backs against the wall.

Why were the Russians not urged convinced that the bomb was a legiti-mate weapon of war, the committee war? At the Yulta Conference earlier the Soviet Union had agreed, in response to American requests, to join the campaign in a matter of months, and it appeared that Soviet involvement might persuade the Japanese to cease to fight. But, as much as they scientists began to argue that a sur-prise attack against Japan would be inadvisable, for it could easily pre-cipitate a real arms race, the Interim committee responded to a small degree. It accepted a proposal from a Scientific Panel, of which Oppenheimer was a part, that the allies of the United States be informed before the warren was used. in the course of the past year.

In the aftermath of war, policy makers who were involved justified their decisions to use the bomb on tested their bomb for the first time at Alamogordo, in the New Mexico desert. It was a stunning success. The crash broke windows 125 miles away. A blind woman saw the light. At the conference Truman was clearly and the grounds of military necessity and the need to spare American lives. Secretary of War Stinson made just such a case in an article in Harper's magazine in February 1947 and in his memoirs, On Active Service in Peace. & War. The first generation of historians concerned with the issue in his dealings with the others. Taking lightly the Interim Comunittee's suggestion that the Russians be inthe major accounts of the end of the war. Later, revisionist scholars formed, he "casually mentioned began to argue that the bomb was used to terrify the Russians and unusual destructive force." But for make them easier to handle in postwar affairs. Such a militury demonstration, the argument went, would very soon thereafter the norms were dropped on Hiroshima and Nagasaki. Tens of thousands of people were killed or maimed beyond viewere killed or maimed viewere killed or maimed viewere killed or maimed viewere killed or maimed viewere killed viewere killed or maimed viewere killed view

going on. Fraklin Roosevelt, a popular president elected four times, had certainly worked on the assumption that the bomb, when ready, would been planned, and the American be employed. Uninformed and unarmed forces were ready to move, sure of himself, president only be-The island-hopping campaign in the Pacific had been overwhelmingly sucoverturn a decision made, in reality, when the expensive process of de-

velopment was begun.

The decision, then, in some ways was a non-decision. The new weapon war as quickly as possible. It did serve to minimize the Soviet declarahave impressed the Russians, as the Americans hoped it would importhey were not the primary ones. They reinforced, but did not control. ultimate decision that

ly used the weapon it had long pla ned to unleash. In some ways, peo large enough quantities could delive

The Oppenheimer series provided the issues go beyond those shown in the dramatic episodes on the screen. Atomic questions provoke a morbid fascination on the part of the public at large. Concern has surfaced in the past, and has begun to surface again. And well it might - for the real message of the first use of the atomic because it was made to be used and

was ready when the time came.
Today, four decades later, with infinitely more firepower ready to show them the overwhelming power of life. Fears reached intense levels money), and included the construc-tion and use of 37 installations in 19 states and Canada. The task involved signate supporters of the idea of storage arguments of the most pas-ple were killed or maimed beyond ple were killed or maimed beyond the ple were killed or maimed beyond the close to the temperature of the sur-sclose to the temperature of the sur-

Twain's

mentary by Charles Nelder

ously good-humoured in the vein of much of his published work, whimsi-

cally self-deprecatory, ambivalently nostalgic, irascible sometimes to the

point of self-defeating irrationality,

bleakly melancholic, or amusingly

phlegmatic in the tones of one who has long ceased to expect any

anyway.

His letters could vary in length from the crisply (and often with-

from human behaviour

Harper & Row, £8.95

ISBN 0 06 014946 9

letters

The training of a Foreign Secretary

by John Prest

Palmerston: the early years 1784-

by Kenneth Bourne Allen Lane, £25.00 ISBN 0-7139-1083-6

Palmerston has not gone short of biographies, and Kenneth Bourne himself picks out H. C. F. Bell's as the best of the two-volume lives, and Donald Southgate's as the best of the one-volume ones. But neither Bell nor Southgate had access to the family papers at Broadlands, and the importance of this enlarged study lies in the manner in which Bourne has been able to supplement and correct both their work and Sir Charles Webster's celebrated and enduring account of Palmerston's foreign poli-cy by reference to the Temple's personal papers.

Bourne never spells out exactly what these consist of, but they have proved sufficient to justify him in daming his new enterprise upon the most expansive scale. The text of this first volume runs to close on 350,000 words, and the completed work might quite possibly top the million. One can hear editors pleading for less, and it is scarcely surprising that the book has apparently been obliged to travel a long road to publication (the preface is dated March 1977), and that compromises have took up with Emma Murray (Mrs are told, could have foreseen in the work and all play. His investments in

merston's private papers tell us much about both his fortune and his love life, and the way in which he pro-vided out of the one for the fruits of

Palmerston was born in 1784, and when his father died in 1802 he inherited fine houses in Hanover Square, Sheen and Broadlands, large estates in Dublin, Sligo, Hampshire and Yorkshire, and a considerable amount of stock". Of course there were liabilities, and allowances to be made to his brother William, and his sisters Frances and Elizabeth, But 1805 his net income from all sources except stock was reckoned at £7,902

£14,356 (which would have purchased about the same number of poor

Palmerston was never content to

3



Mrs Brown.

Throughout this period Palmerston kept a scorecard in his diaries, which were filled with "double entendres the other, and it will be as well to turn to these aspects first.

and shorthand Italian", and pages from his diarles for 1819 and 1835 are among the many excellent illustrations in this book. Palmerston recorded assignations as "visits", and conquests as ""sera", or as "fine days" and "nights". He was proud of his appetite and strength, and placed an emphatic figure "2" after some entries, while on other occasions, with characteristic honesty, he noted that he had failed. Palmerston appears to have

viewed the consequences of his adventures with honourable and jaunty good nature. Even the most casual affairs led to begging letters. (sufficient to support about four hun- and his more serious relationship dred farm labourers), and after his father's executors had finally discharged their responsibilities in 1811. it was, with the addition of income from stock and his official salary. through his power to make appointments to the public service. Thus "La Whaley" received £827 in 1819, and Eliza Blackburn was rewarded rest where he stood. Throughout his life he was an active landgowner. His papers are full of schemes to buy up neighbouring farms (often at exorbitant prices) and consolidate his holdings. He planned great schemes of papers are tuit or schemes to tary applicable unity farms (offer in exortitant prices) and consolidate his holdings. He planned great schemes of improvement, many of which revolved round the exploitation of minerals, and borrowed money heavily, and sometimes rashly, in order to carry them out. In the management of his estates, as in his mature political career, he took risks, made mistakes, and lived to see everything work out in his end.

He was attracted to women ("The Ruling Passion" Bourne calls it in a chapter heading) at about the same time that he came into office flowers became lovers, in that he cancellated in the foreign of the flowers and the flowers and the flowers are interested in the flowers and the flowers and the flowers are interested in the flowers and the flowers are interested in the flowers and the flowers are interested in the flowers are interested in the flowers and the flowers are interested in the flowers are interested in the flowers and the flowers are interested in the flowers are interested in the flowers are interested in the flowers and the flowers are interested in the flower

volume, from Lady Jersey to was still reserved and cautious, and it wreck, it was then, and when it was said of him, with back-handed could be seen that he had survived, praise, that he would always swim he was virtually unassailable.

where greater talents might sink. where greater talents might sink.

He was not born, then, with the taste of combat, the burning ambition to triumph, and the dazzling talent for insubordination, which were to become the hall-marks of his career. It was in pursuing women were to become the hall-marks of his career. It was in pursuing women through their gardens to their husbands beds (this does seem to have bands beds (this does seem to have been an inherited characteristic) that he learned to love danger, live on the brink of disaster, and to trust to his wits and his generosity to find a way out of scrapes and to confront the consequences. It was not, perhaps, by itself, an ideal training and for a Foreign Secretary but then it was find ourselves on more familiar.

Sional mastery of a man who had already spent three hours at his desk every morning before his critics were astir. Having then, in this the first volume, Palmerston, now at last (1839) married to Lady Emily Cowper, goes in for the interval with restraint from either Lord John Russell (his junior in office by over twenty years) or Prince Albert.

With the Palmerston of the 1830s was find ourselves on more familiar.

been forced on the author en route. The print is small and the pages large (not Allen Lane's best format), and the footnotes are delivered, one at the end of each paragraph, in cluster bombs, which main indiscriminately and make identification difficult.

Do not be put off. This is a major work, and the range and depth of Bourne's researches into Palmerston's connexions is astonishing. Pal-

C THE MANSELL COLLECTION

to bear sway by the force of physical control". But the Metternichian systeni of repression could not last; nobody could continue for ever "measuring the columns" of the newspapers, and "prohibiting any books that anybody would wish to tead." These who sought "to crush opinions, and to probabit the human face from thinking would fail, and the revolution of 1830 was to be welcomed as ushering in "the ascendancy of Liberal principles throughout furope". No violence had been committed "beyond what was absointely necessary for the security of the constitution". Was not this "the most triumplant demonstration of the advantages arising from free dis-cussion. from the liberty of the Press, from the diffusion of knowledge, and from familiarizing even the lowest classes with the daily examination of political questions?

It was therefore in Britain's in-

terest to favour the extension of the principles of constitutional freedom all over Europe. Until that happened, British diplomats residing abroad should be brought home regularly to "refresh themselves by re viving their English teelings, and witnessing more closely the operation of constitutional doctrines in which they have been brought up". These doctrines were that constitu tional governments were less likely to go to war than desputic ones, because when taxes had to be voted they would not be voted lightly; that it was impossible, without a constitution, fully to develop the resources of a country; and that free trade among nations would bring both material and moral benefits, "leading civilization with one hand, and pean with the other, to render manking happier, wiser, better". All these and other passages which Bourne quotes approvingly remind one of sentments expressed a decade, and some times more than a decade later, by Macaulay, Cobden and Gladstone Palmerston's liberalism may have been brewed for export only, but it was manufactured neither weak no

way out of scrapes and to confront the consequences. It was not, perhaps, by itself, an ideal training if or a Foreign Secretary, but then it was not the only form of training Palmerston received.

Bourne lays more emphasis than have Palmerston's previous biographers upon the formative nature of his experience at the War Office, including oven, and portrays Palmerston as having fallen in love with the young Queen Victoria, and suggests that the feeling was reciprohis experience at the War Office, in recounting Palmerston's continued by the staff at the Foreign Office, including even, apparently, those to whom he is manages a delightful touch when he talks about the dangers of lightning raids by French steamships upon the South coast. But he has already become in some way (like Machiavelli in political theory) larger than other men, a person to whom rules do not apply, and when his Palmerston went into the office, in 1809, a rather timid bureaucrat. In unravelling the mysteries of regimental allowances and army parameters of regimental allowances and army parameters. Closely parallel with the of 62.

accessible to the selector, and mean-while there is no need to depend uncritically on Paine. However, until the helder to the includes some material lished in 1969 and 1971), and intelliging the helder to the hel uncritically on Paine. However, until the bolder task is undertaken, this the bolder task is undertaken, this gent commentaries on the form of "frankly idiosyncratic" selection The Price and on Incident at Vichy as Billington shows that the dual im-

Dennis Welland

Dennis Welland is professor of Amer-The Selected Letters of Mark Twain edited with an introduction and com-

After the To open a letter from Mark Twain must have been a heady experience. You could count on its being mercuunnistakable, irrespective of signature or calligraphy, but nothing else was predictable. It might be boister-

Arthur Miller: new perspectives edited by Robert A. Martin Prentice-Hall, £10.45 and £3.70 ISBN 0 13 048801 1 and 048793 7 Arthur Miller by Neil Carson

Macmillan, £10.00 and £2.95 ISBN 0 333 28923 4 and 28924 2

Over the last thirty-odd years Arthur Miller's reputation has fluctuated violently. Acclaimed in the late 1940s eringly) laconic to the relaxed garrulous, but they were very rarely dull. More than seventy years after his death they are still eminently readable and parkers the more enjoyable.

The great commercial and critical able and perhaps the more enjoyable because of our detachment from the circumstances that prompted them. Mark Twain would have disapproved of their publication, having always of their publication, having always done all he could to frustrate the enterprise. "All private letters of the Crucible was attacked on politications." The Crucible was attacked on politications of the could war invective enterprise. "All private letters of mine make my flesh creep", he once said, "when I see them again after a lapse of years". The exasperation to which his correspondents were frequently moved, or their long-sufferies retirence with his idiopagates."

Ine Cruciole was attacked on pointered all grounds, with cold war invective which makes depressing reading to day (witches, it was claimed, were not real, but communist spies were). And of course Miller has always attacked on pointered all grounds, with cold war invective which makes depressing reading to day (witches, it was claimed, were not real, but communist spies were). ing patience with his idiosyncracies, stood apart from the experimental-are apparent only in their replies, ism which has dominated recent but those can be conveniently disre-garded by a selection such as this to the influence of Beckett. Brecht, which concentrates exclusively on Artaud, Grotowski, he has persisted in writing a post-lbsenite

Mark Twain's perspective.

Over the last quarter of a century
Mark Twain's life and writings have
Mark Twain's life and writings have

Major London productions of All
Major London productions of All
Major London productions of All been subjected to a degree of scho- My Sons, Death of a Salesman, and been subjected to a degree of scholarly scrutiny that has not commanded universal approval even in the academic world. The proliferation of books on all aspects of the subject and the hibliographical real to actable. and the bibliographical zeal to estab-lish a high standard of textual ways dogged his heels, Miller's stalish a high standard of textual accuracy have to some seemed excessive. This is a matter of opinion. What one had hoped was by now axiomatic, however, was the unreliability of the texts of the letters as published by Albert Bigelow Paine in his two-volume edition of 1917. Having appointed Paine his official biographer in 1906, Mark Twain quickly and characteristically had second thoughts. Within two years he told Howells "If Paine should apply to you for letters, please don't comply", and his secretary observed that "Mr Clemens has lost confidence in Paine".

Is the time is ripe for a reassessing the magain suggests well, and seeing them again suggests will a vital tradition. If the time is ripe for a reassessing appointed Paine his official biographer in 1906, Mark Twain quickly and characteristically had second thoughts. Within two years he told Howells "If Paine should apply to you for letters, please don't comply", and his secretary observed that "Mr Clemens has lost confidence in Paine".

For many years no one who here

Paine".

For many years no one who has considered any of the originals of these letters has had any confidence in Paine either. His faults done

published had appeared "often partially and with errors, bowdlerizations, and 'corrections' by Albert B. Paine". Others of us have subsequently identified some of these "corrections" in other instances as allering the whole tone and sense of a letter very seriously indeed.

It is the more surprising and disappointing, therefore, that Charles Neider, wishing to bring out a fresh selection of the letters, should unadventurously and explicitly rely. "with few exceptions" on Paine's text and selection, and should content himself merely with the comment that Paine has been "underestimated" as a result of more precise.

In the Broadway theatre for which Miller was one of the Broadway theatre for which Miller was one of the letters of the political atmosphere of the political atmosphere of the political atmosphere of the letter wrote, and lardly any treatment of the political atmosphere of the let wrote, and lardly any treatment of the political atmosphere of the let wrote, and lardly any treatment of the political atmosphere of the let wrote, and lardly any treatment of the political atmosphere of the let wrote, and lardly any treatment of the political atmosphere of the let wrote, and lardly any treatment of the political atmosphere of the European image of the American frontier in the nineteenth century by Ruy Allen Billington

Notion, £13.50

The American West has never been solely American. From the time of countries in the lime of way in which Miller's subsequent was affected by American book Naming Names shows, recent book Naming Names shows, recent book Naming Names shows, and the political atmosphere of the European image of the American frontier in the nineteenth century by Ruy Allen Billington

Notion, £13.50

The American West has never been solely American. From the time of Columbus it existed in the fancy of Columbus it existed ment that Paine has been "underestimated" as a result of "more precise, more pedantic and more costly literary scholarship, scholarship increasingly leaning on computers". Certainly "to undertake to do a selected letters at this time without depending heavily on Paine would be an immense task", but it would be worth doing now that so much wider and more definitive a body of texts is

which deliberately avoids trying to be "representative" or "balanced" is likely to find the "sympathetic readers" it seeks.

The Price and on Incident at Viciny as existentialist drama, by Weales and Lawrence D. Lowenthal. But no likely to find the "sympathetic readers" it seeks.

The Price and on Incident at Viciny as existentialist drama, by Weales and ages associated with the frontier agarden versus jungle, ennoblement versus is included on anything Miller versus degradation, opportunity versus catastrophe — were invented as purch by Europe as by America. The

reliable introduction to Miller, which can be recommended to students.

sympathy, and judiciousness: in con-sidering the trickiest and most probaims and then measures his achievements against them. He carefully places each play in an appropriate historical and theatrical context, and is never content simply to retail clichés. He asks the right questions, even though, with academic caution, he tends to back away from offering approach. answers, or expressing controversia

If Miller's plays at best are characterized by heightened dramatic intensity, a command of theatrical effect, they are equally relentless in their desire to educate, to mould or challenge the attitudes of the audi-ence. The most recent of his works, Playing for Time, once more embodying his conviction that "society is inside man and man is inside

originals of these letters has had any confidence in Paine either. His faults may have been due to excess of loyalty, but, as Henry Nash Smith and William M. Gibson noted in 1959 when editing the Mark Twain/ Howells correspondence, such of those letters as had been previously published had appeared "often partially and with errors, bowdleriza-

Price. The editor's lame excuse that much by Europe as by America. The neither The Creation of the World (1972) nor The American Clock time there were shifts. Attitudes to (1980) "has yet received major critic- nature were crucial. In the carliest al attention" does not justify the view, the New World's wilderness publication in 1982 of a volume was seen as an Eden of plenty, which pretends Miller stopped writing in 1968, especially in view of the fact that half a dozen essays were as an Euen of picinty, equality and virtue. Reports by the first settlers changed this to one of Indian barbarism. Eighteenth-century have given more guidance on the accuracy of his material. commissioned for the volume. Playing for Time (1980), a work of comparable stature to The Price, is mentioned only in the abstraction of in-A more serious failure is the lack tioned only in the chronology of important dutes and not even given a sentence in the editor's introduction. lief that nature should be tamed and Neil Carson's Arthur Miller, one of six volumes which inaugurate Macmillan Modern Dramatists, is a mer views of life on the frontier. As more responsible piece of work, it the society became more urban and contains careful and informed discussions of nine plays, including The Creation of the World, Playing for Time, and Miller's early unsuccess. Time, and Miller's early, unsuccess-ful The Man Who Had All the Luck. American counterparts, the attitudes s well as two introductory biog- of European writers toward the Indiraphical chapters and a brief survey of Miller's non-theatrical writing. but as the century wore on, Euro-

Billington discusses the effect of this literature on Europeans them-Carson's great virtues are clarity, selves. He claims, without much evidence, that the writers had some influence on emigration. He strikes a richer vein when he deals with the lematical of Miller's plays. The Crucible, A View from the Bridge, and After the Fall, Carson attempts in each case to ascertain Miller's sections shows how conservatives sections shows how conservatives that the sections shows how conservatives that the sections shows how conservatives the sections and sections shows how conservatives the sections shows how conservatives the sections shows how conservatives the sections and sections are sections as the section of the section shows how conservatives the section of the section shows how conservatives the section of the section shows how conservatives the section shows here the section shows here the section shows how conservatives the section shows here the section used the "safety valve" theory - that the surplus lands of the frontier

Most of Billington's book is description, repetitious sometimes written with a lively approach to literary scholarship and history. His reconstruction of impossible tales and stilted styles, his delight in the disgust of European writers at frontier eating and spitting habits (not to speak of eye-gouging and scalping) produces some marvellous vignettes. His analysis, however, is not equal to his description. It is often hard to tell, for example, when his writers were exaggerating and when they were not. As the "dean" of American frontier historians, he could

of comparison between European and American writers. Only here and there does Billington tell us what was distinctively European about "the European image of the American frontier". I think he holds that European writers were more apt than the Americans to dwell on the squalor of pioneer farming and the injustice of Indian-white relations; but his position is not clear. His epilogue seems to suggest that Hollywood censorship almost singlehundedly stopped American Westerns from being as brutal and sexy as European Westerns; the underlying differences beraphical chapters and a brief survey of Miller's non-theatrical writing. Though perhaps a less distinguished piece of criticism than Dennis Welland's Miller: A Study of his Plays which covers much of the same ground, Carson's book is a sound, reliable introduction to Miller, which European writing on the frontier, shows that the author had all the material he needed to make such a comparison.

Land of Savagery, Land of Prom

ise is a superior guide to an impor-tant body of literature. As a work of analysis it is not very successful, but it shows the way. Billington is his own frontiersman.

Rupert Wilkinson

Rupert Wilkinson is reader in American studies at the University of

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Values in perspective

Between Science and Values by Loren R. Graham Columbia University Press, \$25.90 ISBN 0-231-05192-1

Why is eating people wrong? The answer you get depends upon whom you ask. One sort of anthropologist will tell you that the prohibition is embedded within a system of tuboos that functions in maintaining tribal solidarity; another sort will point to the relative availability of alternative protein sources. An experimental psychologist may invoke "operant conditioning", and a sociobiologist may dilate upon the genetic basis of altruism. A clergyman will offer scriptural exegesis, and the (non-cannibalistic) layman will simply look ill and tell you that cating people just is

The example is not entirely frivolous; it crystallizes the major theme of Loren Graham's important book. Take the anti-anthropophagist maxim as a "value": imagine this value as a piece of desirable territory and its different explanations as strategies for carving up and occupying the Since the late nineteenth century

the competition between various speintellectual clites for the rights to explain, protect or impugn human values has been intense. This competition has often been at its most bitter when natural scientists and more traditional intellectual groups have been arrayed against each other. Some scientists have adopted what Graham terms an "expansionist" strategy: values are prop-erly to be explained using the intel-lectual resources of the scientist. Ultimately, expansionists say, this is a problem for the geneticist, the experimental psychologist, even for the chemist and the physicist. Still other scientists, no less competent or rigorous, claim that there are places where the techniques of the natural scientist cannot go. These are Graham's "restrictionists", and their strategy leaves part or all of the terrain of values to the laity, the clergy, the politicians, or the softer of the social scientists.

Graham's book consists of a series Steven Shapin of essays on the spectrum of positions on science and values actually taken up during the twentieth century in different cultural and national settings. He focuses on the writings of scientists who have publicly reflected on these matters from their platforms of acknowledged expertise. Graham's approach is comparative. For example, he contrasts A. S. Eddington's reaction to relativity theory with that of the Soviet physicist V. A. Fock. Eddington maintained that scientific knowledge was actively created by the human mind, apprehending what Mind had put into nature. It was essentially metrical ("pointer reading") and was these. al ("pointer reading") and was there by Richard E. Passingham fore based on a restriction of the ways of cognizing available to man. For Eddington "there are regions of For Eddington "there are regions of the human spirit untrammeled by physics"; one could perceive things through the soul as well as through the eye. Eddington's restrictionism and dualism left space for knowledge founded upon religious sensibilities and for religious authority in sance and for religious authority in sance.

ably reminds us of what may surprise ably reminds us of what may surprise that many present-day polemicists: that the basis of inadequate evidence and intellectuals saw no inherent reaching inclinations in either the basis of inadequate evidence and intellectuals saw no inherent reaching political implications in either that the basis of inadequate evidence and intellectuals in political implications in either that the basis of inadequate evidence and intellectuals saw no inherent reaching political implications in either that the basis of inadequate evidence and intellectuals saw no inherent reaching political implications in either that the basis of inadequate evidence and intellectuals saw no inherent reaching political implications in either that the basis of inadequate evidence and intellectuals saw no inherent reaching political implications in either that the basis of inadequate evidence and intellectuals saw no inherent reaching political implications in either that the basis of inadequate evidence and intellectuals saw no inherent reaching political implications in either that the basis of inadequate evidence and intellectuals saw no inherent reaching political implications in either that the basis of inadequate evidence and intellectuals saw no inherent reaching political implications in either that the basis of inadequate evidence and intellectuals saw no inherent reaching political implications in either that the basis of inadequate evidence and intellectuals saw no inherent reaching political implications in either that the basis of inadequate evidence and quantities of penicilling political implications in either that the basis of inadequate evidence and quantities of penicilling political implications in either that the basis of inadequate evidence and quantities of penicilling political implications in either that the basis of inadequate evidence and quantities of penicilling political implications in either that the basis of inadequate evidence and quantities of penicilling political implicatio

practical possibility of constructing an egalitarian society.

In fact much of the evidence in

this book supports the conclusion that there are no implications in scientific knowledge at all; people con-struct them. The suggestion would be that if you want to me to revolu-tion it is more effective (although more difficult) to attack reactionary institutions than reactionary ideas. There are also useful essays on behaviourism, primatology and sociobiology; Bergson and Monod; Tielhard de Chardin; and on Heisen berg's cunning strategies for securing cultural place of science in changing German political condi-

the main this is an historian's book. Graham is not overly troubled by philosophers' condemnation of "the naturalistic fallacy". That you cannot get logically from an "is" to an "ought" has no bearing upon the historical understanding of attempts to do just that. There is little tendency here to evaluate the different strategies, and a few chapters with a policy slant (for example, on biomedical ethics) appear slightly out of place in the book as a whole. Graham's breadth of scholarship is

impressive; he commands Russian, German and French, as well as British and American materials, and his comparative approach is welcome. One is reductant to pick nits, but there are several problems with his overall handling of these issues. First, Graham's preferred method is individualistic and typological: X was a restrictionist; Y was an expansionist. One gets less sense than one should of the constituencies for the various positions and the reasons why one might be more credible than another in different settings.

Second, there is the notion of "values" itself: according to Graham, "what people think to be good". In his usage "values" have more an aesthetic than a political flavour, and many British and Continental palates may find this characteristically North American category less than satis-fying. On this side of the Atlantic the favoured speech is of "interests" and "ideologies". "Values" and "interests" are not interchangeable locu-tions. To talk of "interests" one would have to be concerned (more concerned than Graham is) with the social groups that supported these strategies and with the question of what was at stake in their outcome. A fine book might have been even better had these matters been systematically addressed.

from the

Freeman, £14.95 and £7.50



Chimpanzee threatening

panzee and mouse than there is between man and chimpanzee; 98 per cent of the genetic material is identical in the latter two species. Although man's brain is about three times as large as a chimpanzee's, the ratio of cortex to the remainder of the brain increases with brain size in primates and the ratio in man is accurately predicted by extrapolating from that found in other primates' brains. The sensory apparatus of monkeys and apes is very similar to our own: monkeys can be trained to recognize single syllables and continue to recognize them when they are spoken in a different voice. Dr Passingham suggests that man's superior intelligence depends more on the increase in brain size than on specific changes in the wiring, although it is difficult to find any variation in intelligence among people that correlates with individual brain size.

Chimpanzees can master a sign language of about 200 words and within this language can understand and put together new arrangements of adjec-tives governing a noun. There is more doubt about whether they can master the kinds of rules of sequence that determine the difference in meaning between "The dog bit the boy" and "The boy bit the dog". Chimpanzees use sticks and stones as tools in the wild, and as Wolfgang Kohler has demonstrated, learn to use tools in much more elaborate ways in captivity. One group of captive chimpanzees tearned to carry a long branch and prop
it up against a wall in order to year item. it up against a wall in order to use it as a adder: to the embarrassment of their

keepers they eventually decided to use this method to escape from captivity. As Passingham points out, one may wonder why chimpanzees have not developed a primitive language and more extensive use of tools. It may be that they can satisfy their needs per-fectly well without these expedients - it was after all the descent from the frees that drove man to walking upright and the more hostile environment of the savannahs that put a greater premium

Primates, including man, are of course highly sociable animals. Chimpanzees spend much of their time playing together or grooming one another and the infant bereaved of its.

The story of the early work in the control of the story of the early work in the control of the story of the early work in the control of the story of the early work in the control of the story of the early work in the control of the story of the early work in the control of the c mother shows all the symptoms of depression. In the wild, different colonies of chimpanzees develop indi-

males tend to be larger and stronger propose what is now known to be

hierarchies. He points out that one species of monkey forms and defends territories in a habitat with little food, but does not establish territories in a als can recognize one another and learn to challenge only those against whom they are likely to win a fight. validity of Sheehan's synthesis of a The point that there is no need to penicillin derivative on the basis that it contained the B-lactam structure postulate specific territorial and dominance drives is well taken and should and therefore was not a penicillin. be pondered by sociobiologists. But it ing in their midst.

The Human Primate is an agreeable

on a wide range of knowledge drawn from several disciplines, as evinced by the list of over a thousand references given in the bibliography. My favourite chimpanzee experiment is missing. A apanzee was taught to fill a cup of water from a tap, in order to extinguish a flame that guarded a tunnel down which the chimpanzee could reach to obtain a banana. Once the chimpanzee had mastered this task, the apparatus was placed on a raft with the tap in sight on land. The chimpanzee picked up the cup, but instead of dipping it in the lake, waded ashore to fill it from the tap. Maybe chimpanzees do conceptualize the world in a way very different from man or perhaps they are no more irrational than the numerous water-snobs who insist on drinking mineral water that is indistinguishable from tap-water.

Stuart Sutherland

Stuart Sutherland is professor of ex-perimental psychology at the University of Sussex.

Antibiotic armoury

The Enchanted Ring: the untold MIT Press, £10.50 ISBN 0 262 19204 7

More than fifty years have passed since Fleming observed the bacter-iocidal effect of a Penicillium mould. This chance observation, followed up by experiments, enabled him to conclude that the mould produced a substance with the ability to kill many types of pathogenic bacteria. This substance, penicillin, still occupies pride of place in the antibiotic armoury, no doubt because of its efficacy and lack of toxicity. Howev-

founded upon religious sensibilities and for religious authority in sanctioning human conduct. By contrast, fock denicd all forms of idealism and dualism, adapted relativity to bean one another over the head with their own fossils, and to the head with their own fossils, and to the head of an objectively knowable redentials of clerical moralizers.

Another chapter treats the different political affiliations of eugenics in Germany and the Soviet Union for Germany and the Soviet Union in Germany and the Germany and the Soviet Union in Ger

tionary political implications in either it.

He points out that in many ways the general. Some of the most powerfully persuasive Soviet tracts of the apes are more striking than the differ1920s argued from an hereditarian nature to the position on human nature to the similarities between man and the great apes are more striking than the differform an hereditarian nature to the ence in the genetic makeup of chim
ences of childbirth for the female. One could argue that it is probable that in the course of evolution innate man, and in collaboration with Sir mechanisms will have developed to facilitate the necessary division of achieved sufficient chemical results of Chemistry at the University of Oxford.

J. E. Baldwin

J. E. Baldwin is Waynflete Professor of Chemistry at the University of Oxford.

than females. Moreover, there is evidence, not mentioned by Passingham, contained a striking and hitherto unthat the male hormone, testosterone, plays a role in determining aggression.

He is more convincing in his rejection.

He is more convincing in his rejection. tion of innate factors directly determin-story and is in fact responsible for ing the territorial drive and dominance penteillin's biological potency. This unique structural proposal originally received considerable criticism, particularly from the chemist Robinson. However, by 1945 Dorothy Hodgkin different limbitat containing plenty of food. Moreover, a dominance hierarthee case was considered proven, exchy will always be established if animregard, Sheehan cites a discussion in 1952 when Robinson challenged the

Florey was aware that conditions is hard to give an account not based on in wartime Britain would not permit instinct for the universal animosity development of large scale production and also that penicillin had potential military applications. Consequently he, with Heatley, visited book which is free from jargon. Its clarity conceals the fact that it is based result, workers in the Northern Reresult, workers in the Northern Re-gional Research Laboratory of the US Department of Agriculture, Peoria, Illinois, were soon to make major advances on the large scale production of penicillin. There was another and far reaching consequence of this visit. Since the establishment, by Roosevelt in 1941, of the Office of Scientific Research and Development, the then director Vannevar Bush had established the Committee on Medical Research which soon began to support what was to

> In this elfort a collaboration was achieved between academics on both sides of the Atlantic, and importantly some of the major US pharmaceutical companies. Sheehan illuminates the difficult nature of such a collaboration involving secrecy, con-flicts arising from necessary disclosure among the collaborators, and the ever present question of commer-cial interests. In spite of all this, however, information was shared and research advanced, with the result that penicillin became an available

be a massive joint research program-

It was through his employment by Merck as a chemist that Sheehan's contribution enters the story. Although one of the goals of the Anglo-American collaboration had been the practical synthesis of penicillin, this was not achieved and the success of deep fermentation seemed to remove its need. So at the end of hostilities the programme was shut down. Sheehan, however, now at MIT, began a long journey directed

towards this goal.

Synthesis, the modern alchemy, is the building up of molecular structures from smaller units. In this controlled trolled way the chemist can create a substance which is identical to that of nature. Success eventually came and by 1956-57 Sheehan had made the core structure of penicillin, called 6-APA. In spite of the so-called 6-APA. In spite of the so-called Drinker precedent, in which the inventor of the iron lung was criticized for patenting a life-saving invention. Sheehan applied for a patent on this new substance. Virtually simultaneously Beecham Laboratories, in England, obtained 6-APA by formentation and proceeded to make from it a vast array of new penicillins, the semi-synthetics, many of which are in wide therapeutic use. Sheehan describes the long and diffi-cult litigation which ensued between himself and the British company. In 1979 the US Board of Patent In-

when the modern research triangle of university, industry and government was being forged. Its subject, penicil-

Different solutions to common problems

The 20 members of the Common Market face similar economic and social problems but have dissimilar approaches to their solution. France has chosen an expansionary path, although in François Mitterrand's second year the brakes have begun to be applied. Britain has taken a deflationary path. Most of the others have chosen some midway compromise.

As a result the higher education systems of the Common

Market have different experience. Expansion in France and now Greece, cuts in Britain, and a gentle settling into steady state in Germany, Denmark and the others, with Italy as an eternally chaotic but not unsuccessful exception.

This survey of higher education in the Common Market, however, reveals that there are difficulties all systems face regardless of the temporary political regime in their coun-

A conspicuous confidence in the future



ing in January, addressed by the president himself. It is significant that the long term thened.

tion leapt by a quarter.

Both the British Government and

into higher education in France. But the reassertion of a Keynesian economic strategy combined with long term planning has seen a move to-

Higher education in France is seen of the seconomic recovery.

One of the consequences of this is not merely a renewed feeling of confidence in academia. It is also found in the belief that recovery can be brought about by reward and encouragement rather than by penalty and sanction. It remains to be seen to be seen to be seen the belief that recovery can be brought about by reward and encouragement rather than by penalty and sanction. It remains to be seen to be said the seen to be said the seen to be said the seen to be seen to be

which holds that investment in higher education is central to economic development.

Where such investment should be directed and how higher education's research potential should be linked with the accordance where such investment is brightered and how higher educations.

Hones are high that the new local process and computers.

The contribution higher education could make to combating the recession through teaching and research of the country's 27 educational regions.

The admissions policy for foreign nuit and industrial sectors held to be important in the future like, biotechnical process are high that the new local process are hig

rethinking of higher education priorities have not been tackled within the these lies in the area of academic comparatively narrow confines of The contrast between the upturn of either education or social policy. Rather, they have been examined as fortune in the French academic world and the dismal scene in Britain is little short of a miracle.

While Britain faced cuts in its and development efforts and the higher education budget and student numbers. France last year experi-

enced conspicuous growth.

In real terms, the French higher education budget grew for the first time since 1976. It rose by 15 per time since 1976. It rose by 15 per time since 1976. It stands in marked contrast to that cent while the overall research adopted by the previous regime end of the century, both govern-budget – always a barometer of gov-which, from 1968 onwards, was ments have maintained a policy of ernment confidence in higher educa- largely governed by a series of short- supernumary recruitment. Where the term measures.

These were intended on the one present administration departs from this priority has been in a series of

the French Prime Minister, Mr Pier-re Mauroy face similar difficulties.
The rigours of monetarism and their consequences have brought about a reduction of tenured staff and out a reduction of tenured staff and avoid a repetition of massive student universitaires. the number of young people going unrest. into higher education in France. But Thou

nomic strategy combined with long term planning has seen a move towards the expansion of higher education.

One of these is the increase in the number of academic posts together with measures to ensure continued promotion prospects and to infuse new blood into the academic profession.

Symbolic of this was the letter the Symbolic of this was the letter the Alian Savminister of Education, M. Alain Savminister of Education, M. Claude commission, headed by M. Claude commission, headed by M. Claude promotion prospects and to infuse new blood into the academic profession.

But it is a stopgap measure. Doubt-less, the final mechanism for dents in March. It announced a new lighter education law. This is a stopgap measure. Doubt-less, the final mechanism for dents in March. It announced a new lighter education law. This is a stopgap measure. Doubt-less, the final mechanism for dents in March. It announced a new lighter education law. This is a stopgap measure. Doubt-less, the final mechanism for dents in March. It announced a new lighter education law. This is a stopgap measure of the final mechanism for academic profession, headed by M. Claude commission, headed by M. Claude commission, headed by M. Claude commission, beat the final mechanism for academic appointments will emerge from the musings of the final mechanism for academic appointments will emerge from the musings of the final mechanism for academic profession, headed by M. Claude commission, headed by M. Claude commission for academic appointments will emerge the musing the final mechanism for academic appointments will emerge the final mechanism for academic appointments will emerge the final mech Higher education in France is seen of its predecessor, delivered by The impetus for most of these crucial to economic recovery. Edgar Faure in the aftermath of May strategic developments, many of

and sanction. It remains to be seen whether the carrot is more effective than the stick.

In a curious manner, however, the incoming Socialist government of M. Mitterrand has persisted in the credo, so fashionable up the mind 1970s ties. Second, because, the new Bill place particular importance on will place particular importance on the bate" – which appears rather less futile than its British counterpart – is clear from the discussion points set down in M. Savary's letter to university presidents. Among the more weighty were:

with the economy were the subjects of long and sustained debate, beginning in July last year. The discussion reached its climax at a massive meet reached its climax at a massive meet. There are already signs that on specific issues this trend is being strengcientific and medical research. One of the most important of

 Different approaches for vulgariz-ing new knowldege with a view to raising the level of competence in the population as a whole. appointments. In some aspects, this

is still a bipartisan policy. Both the Why has the Ministry of Education Socialists and their predecessors are well aware of the effects of an aging professorate. The consequences this taken a back seat in thinking about the strategic and future development of higher education? will have not only on morale, but There are several suggestions. In

also on the creativity necessary to the first place, M. Savary has mainsustain higher level research and detained an extremely low profile. Given the feuds and spectacular ven-In order to plan for the anticipated pick-up in the birth rate towards the end of the century, both governimprudent. But there are other considerations as well.

The incoming Socialist Government did away with the separate Ministry of Higher Education, reverting to a situation that existed before 1974. This, was the result of The essence of these five measures considerable pressure from the gov-

ernment backbenchers, many of whom are ex teachers and lecturers. The separation of higher education from the rest of education under Giscard d'Estaing was seen as a right wing attempt to "divide and rule".

Secondly, many of the opposition's efforts to discomfort the Government have involved unearthing an issue of great antiquity and much emotional appeal in Republican France - the issue of state subsidies to private, church-run schools. As could have been predicted, M. Savary's attentional to this divarbe given to individual establishments.
The impetus for most of these tion has been devoted to this diver-

the minister's activities over the past year. He has reversed election procedures for university presidents, brought in with great haste by the previous regime.

There has also been a quiet, steady departure of individual recteurs d' academie - not Britain's result in measures acceptable to that equivalent of vice chancellors or principals, but French education's equivalent to the prefect. The recteur

series of circulars dealing with conditions of appointment, tenure and promotion, passed two months ago. Tenure has provided a continua source of disgruntlement and ill-feeling throughout the year with the Syndical National de l'Enseignement Superieur, the largest higher educa-tion teachers' union, making noises of distray and disappointment.

But beneath the surface the more intractable problems remain. Should some form of selection at entry to university be officially supported? At present the Baccalaureate, legally at east, gives a right to its holder to a place in university, though not in the grandes cooles nor in the two year university institutes of technology. What should the relationship be between the clite grandes écoles and what one academic once unkindly termed "the university swamp"?

The former was raised during the January states general of academia. Professor Laurent Schwartz suggested that a more rigorous pruning ought to take place. Those judged of outstanding ability" should be given special grants to encourage talent and creativity as part of the cam-paign to strengthen the national re-search drive. He was severely mauled for his daring.

As for the latter the grandes écoles have successfully waged a subtle campaign. They pointed out that many of them are precisely in those areas where even more national investment is needed, namely engineering and electronics. The implication is, of course: "If it works, don't fiddle with it."

sionary tactic.

But measures relating to higher education have not been absent from commonly reckoned to be sympathetic to, if not an ardent supporter of M. Mitterrand's party, is prepared to prolong the "state of grace" rather more than the rest of the population.

The coming year will reveal whether the launching of commissions and the holding of debates, will most touchy of bodies - academia.

with their emphasis on technology and the applied sciences, are seen to attract, and to be likely to continue

to attract, state funds in greater

proportion than the universities, at a ime when the scenario painted for

the universities is one of nil or nega-

ters made observations on what they regarded as the "waste" of resources by the universities in maintaining humen studies at their present levels. They compared the "lack of relevance" of the universities with the "relevance" claimed for studies in

tive growth in real terms."

the new institutions.

Guy Neave

Universities and the economy

urgency in Ireland where the immediate economic outlook is bleak.

The confederation claimed that the country was producing too many arts graduates, and that the universities were not developing entrepreneurial skills among their graduates.

Mr. Con Power director of economic for institutes had organizations.

Higher education institutes had organizations.

The Industrial Development Authority has since admitted that the universities that organizations.

The Industrial Development Authority has since admitted that the configuration of their courses coupled with demands for more "relevance" in their courses coupled with demands for more "relevance" in their courses will, some academics fear, erode traverse of the state as into the top half dozen electronics institutions for scarce resources coupled with demands for more "relevance" in their courses will, some academics fear, erode traverse of the state as into the top half dozen electronics institutions for scarce resources coupled with demands organizations.

According to Mr. Scamus organizations.

According to Mr.

An extraordinary rumpus broke out recently between the Confederation of Irish Industry and the statutory Higher Education Authority, ostensibly over university graduate employment statistics.

But the claims over the percentage of graduates going into employment were a cover for the real debate—the role of the university in a rapidly changing economy.

It is not a new debate but its

changing economy.

It is not a new debate but its felt in the universities over the new versities as n whole who obtained versities as n whole who obtained urgency in Ireland where the im
Higher education institutes had jobs in 1981 with the "new wave"

were not developing entrepreheural skills among their graduaters.

Mr Con Power, director of economic policy for the confederation and a former technical college principal argued: "Far too many of our best young people are being diverted into cul de sac areas of learning, whereas what we need is a far greater dedica
Mr Con Power, director of economic policy for the confederation and a former technical college principal argued: "Far too many of our best young people are being diverted into cul de sac areas of learning, whereas what we need is a far greater dedica
Mr Con Power, director of economic policy for the confederation and a former technical college principal and other areas has not been and other areas has not been and other areas has not been nologists and said the universities believe to be important.

The careers and appointments of the economy. It cited, as the confederation also rejected to higher education and not giving sufficient weight to the values that nologists and said the universities believe to be important.

The careers and appointments of the economy. It cited, as examples, the involvement of the involvement of the involvement of the confederation also rejected to higher education and not giving sufficient weight to the values that nologists and said the universities believe to be important.

The careers and appointments of the economy. It cited, as examples, the involvement of the involvement of the confederation also rejected to higher education and not giving sufficient weight to the values that the universities believe to be important.

The careers and appointments of the involvement of the involvement of the universities believe to be important.

The careers and appointments of the involvement of the involvement of the universities believe to be important to higher education and not giving their contributions are also into the expansion in the new students. The universities believe to be important to higher education and not giving the involvement of the universities believe to



Competition with the newer, more aggressive institutions for scarce re-sources coupled with demands for

body in higher education. But by 1990, with the development and expansion of the non-university sector. is estimated that the universities' share of the student body could drop to 55 per cent or less.

A study of new entrants to higher numbers admitted to vocational col- 1.1 million in 1981/82. The steepest leges and universities were almost rise occurred in the second half of dentical that year while the former were expected to rise even further in

the future.

Apart from the funding element important when so many of universfunding comes from the state the universities are worried about a further threat to their autonomy.

The present government is committed to the break up of the National University of Ireland - incorporated by charter in 1908 - and its replacement by separate independent universities in Dublin, Cork and Galway.

The position of St Patrick's Col-lege, Maynouth – the national seminary for the training of priests and a recognized college of the NUI - is still unclear. The college is run by a decade and since, on average, a Gergoverning body composed entirely of Catholic hishops. Some want independence, others want a relationship with an independent National University of Dublin - the proposed new name for University College, Dublin. Until some years ago, most uni-

versity academics who thought about the issue favoured independence, but now many are not so sure. Apart from misgivings about smaller institutions being eclipsed by the bigger colleges in Dublin, there is a further nagging question. Will the Government seek as much control over the independent universities as it did over the national institutes for higher education, legislated in recent years for both Limerick and Dublin?

The provision of courses by these institutions is "subject to such conditions as the Minister for Education may prescribe". Nine of the governors are appointed directly on the recommendation of the minister while staff appointments are subject to his approval. University academics, mindful of their autonomy, certainly do not want such controversial clauses written into any future bills for their "independence".

A related and unresolved question is whether or not the Government would be tempted to bring in new legislation for Trinity College, Dub-- a venerable institution which has produced its fair share of poets and political thinkers - Dean Swift, Oliver Goldsmith, Edmund Burke to

Trinity is the sole constituent college of Dublin University, founded in 1592 when a charter was granted by Queen Elizabeth I

Although for centuries regarded as the bastion of Protestant and Unionist ascendency in Ireland, in recent years the character of its student population has changed dramatically and now about three quarters of its undergraduates are Catholic while the percentage of overseas students The present Education Minister,

teaching post at Trinity, has indi-cated that he does not see any need dents was to enlarge the system. The to extend legislation to the college. achievement here is considerable:

R

universities currently account for two thirds of the full-time student body in higher education. But by 1990, with the development of the full-time student by the full-tim too few places

A study of new entrants to higher education institutions to be published shortly is expected to show that in 1980 over 40 per cent of new entrants went to vocational and technological collogos a considerable of registered full-time studiosical collogos a considerable of the collogos and collogos a considerable of the collogos and collogos an dents; there were some 170,000 in resources available now and for the the students had received an answer. higher number than expected. The the winter of 1950/51 and just over foreseeable future are on a more

As a result of an increase in the 19 to under 21 age group, and financial support for students the percentage of the age group proceeding to higher education rose from 7.9 in 1960 and the prolonged political and and 19.4 in 1980.

What distinguishes the Federal Resown. It is probable that higher public from Britain is that - after a education - which in Germany espetem permits students to apply to Jukob Lange, register at the Unipeople from higher education.

will peak in the second half of this thing like five or six years the total student population is now expected to reach its maximum, 1.3 to 1.4 million, in the early 1990s.

The problem of accommodating



these masses of young people who have come to regard higher education as an automatic progression from secondary education, continues to be the most influential factor in higher education policy. For almost 20 years this has largely been a direct response to pressure. Lately financial

pressures are beginning to take over. The numbers problem is particularly acute because of the constitutional right of all qualified grammar school-leavers to study any subject of their choice at any higher education institution. "Qualified" in this context means having passed the Abitur, the grammar school leaving certificate, whatever the combination of subjects. Since its reform in 1972 pupils can be more selective in their. choice of subjects studied during the top two forms. Now the universities complain vociferously that students are not up to the standard required especially for the most specialized

Dr Martin O'Donoghue, who is on doing some of the reforms.

The main way to cope with these

cated that he does not see any need to extend legislation to the college.

But, it is known that a previous minister certainly considered the idea and a future one might well, especially if there is significant state involvement in the other independent universities.

University legislation is not an immediate priority with the present government. But the perceived need to universities in furthering economic development is likely to colour modernities was able and the federation was able and propared to assist the consider legislation. That is unless academics can consider legislation. That is unless academics can consider legislation. That is unless academics can consider legislation and the federation where the interest of the institutions of the universities in Ireland do not seem to the cate of the interest of the institutions of the universities of the universities of provide the universities of an "overload" programment the life of work harder in the case of staff, and the anxiety about job prospects and "overload" programment the life of the need to work harder in the case of staff, and the anxiety about job prospects and vice and more often the question is being asked; "Are we producing too may graduates?" There are many comes.

In the process a new partnership, was founded between the states (the committee the obliged to initiate of the med to work harder in the case of staff, and the anxiety about job prospects. More and more often the question is being asked; "Are we producing too may graduates?" There are many comment to an immortant felt obliged to step in an overload to step in an overload its final basic test has just public's research output.

That is unless academics can convice politicians that the universities in Ireland do not seem to development is likely to colour was able and prepared to assist the leading particularism of the Lethader, have a wid

modest scale.

The Länder, most of which have financial problems of their own and are controlled by the CDU opposior education rose from 7.9 in 1960 yet another prolonged political and more marks and thus have a chance und 19.4 in 1980.

What distinguishes the Federal Re
What distinguishes the Federal Re
What distinguishes the Federal Re-

another few years. Economic stagnation and graduate unemployment do the darling of all three major politic. In Denmark, as in not seem to have deterred young al parties - much more than tertiary education ever did in Britain - is The number of 18 to 21-year-olds experiencing a distinct decline in the popularity stakes. The change from an elitist to a mass system and the man student is registered for some- elaborate structural changes have not brought the expected benefits.

It may not altogether be a bad thing to allocate public funds more sparsely and critically in the future some of the new university buildings in West Germany are, indeed, very spectacular, lavish and expensive to run. Nor would it be undesirable if er universities like Augsburg, Passau, Oldenburg which still have vacant places, thus relieving the pressure on popular universities like Berlin, Bonn, Münster or Munich.

However, in spite of all the deli-berations in the federal and Lander ministries, in government planning committees and advisory councils, there appears little likelihood that this will actually happen. German applicants.

The minister of education, Mrs in the choice of their place of study and their course. At least as long as many of the new institutions lack a

And an increase in recurrent expenditure to allow for a further substantial expansion in staff and equipment at the new universities is out of the auestion.

All German governments face the need to contain expenditure, though far less dramatically than the British government thought necessary. Just as quite sizable capital grants are still made available cutbacks have not led to redundancies; they do not threaten tenured (civil servant) posts until they fall vacant, when in some

cases they have been frozen or lost. A larger number of temporary appointments have not been renewed yel only now has one minister - the Northrhine-Westfalian higher education minister - came forward with a plan which remotely resembles the restructuring schemes imposed on university courses. Ministers of British universities. And again, peo-education are already considering un-

tected. Given the continued rise in stugovernments to adhere to their 1977 dures but also the result of the need their first degree.

Call for shorter and

coordinated enrolment system. About 20,200 or 76 per cent were

the students had received an answer. spring we made an arrangement with Those 6,300 who were refused IBM to the effect tht 27 of those admission - on grounds of low average marks or restriction of admission were being retrained by IBM to bewere invited to consult an educa- come EDP-planners. The occupational counsellor. They would discuss tional rehabilitation course took six whether the person should try for months and the ministry of education admission next year, choose another paid unemployment relief during that building programmes. The seeds for course or take a job in order to gain period. All of them got a job after-

short half and even decline between cially since the student unrest of the 1975 and 1977 – the number of new 1960s has become excessively politientrants has been rising again and is cized - will suffer.

expected to continue to do so for Higher education, which 20 years | grantages and so increases then chance of getting a place. Out of the 20,000 who were admitted, 16,500

> In Denmark, as in many other countries, there has been growing public concern about further and higher education. Students are pressing to get a higher education, the costs have increased and funds are limited.

As a result of this trend, legislation was introduced in 1976 to regulate access to further and higher education. Until then admission was open (with some exceptions) and intake to these courses increased greatly from 1960 to 1977. The Act of 1976 authorized the minister of some of the additional students education to regulate entry to the voluntarily went to those of the new- courses of further and higher education. For example, admission to the schools of dentistry and midwifery had been restricted for decades while admission to universities was un-

In fixing quotas, consideration is not only given to estimates of the future need for graduates, but also to the capacity of the institutions and the geographical distribution of the

Dorte Bennedsen, says: "With the explosion of young people who seek to graduate from 'the gymnasium' reputation and offer only a limited (the Danish upper-secondary school) range of subjects with little choice of which has taken place during the lectures, they will stay away from past 20 to 25 years, it has been necessary to regulate admission to further and higher education. It is impossible for the universities and institutions of higher education to accommodate almost one third of a years' output.

According to the budget, Mrs Bennedsen calculates annually how many persons will be admitted to each university or institution. In this

support bodies, which are largely fi-

ing these. It appears that a more

coherent long-term science and re-

Many academics are unhappy ab-

out their greater involvement in insti-

tutional self-government, following

the reforms of the early 1970s: Ger-

spending time on such activities; and,

indeed, the active interest in internal

search policy is in the making.

Last July 26,500 persons applied for calculation social and economic facplaces in higher education under the tors are considered.

Mrs Bennedsen says: "We have to supply trade and industry with the admitted, whereas about 6,300 or 24 kind of graduates they need, and we wards," says the minister.

"What we need are shorter and versity of Copenhagen.
"Within further education, the

officially stipulated time of study is three to four years and within higher education five to six years. But the studies last longer, and the students often give up out of economic reasons, as an example, only 20 per cent of those admitted to the faculty of arts graduate," says Mr Lange.

Higher and further education i financed by the state but the students have to pay for their living. They provide the funds through loans obtained from banks and saving banks which are state guaranteed. The interest varies from 15.5 per



cent to 19.5 per cent but state educational support is also given to stu-dents of 18 years or over in the form of scholarships. These are granted according to the financial need of the applicant

It has, however, become difficult to repny the loans because of the length of the courses. And this in turn is due to the students' financial difficulties since they normally need to have jobs while they study. In

tant to respond.

notice of the needs of the introducing cost-based tuition fees. In this context the Fachhochschulen nanced from public funds, in directapprove new "relevant" course prog-(advanced vocational colleges) score: rammes, and the students are reluc they were only elevated to the tertiary level 10 years ago yet have, with Course reform is the saddest chap-

ter in the history of German higher education over the past decade. In the reforms of the early 1970s: German academics are still not used to greatest need for renewal. Courses were, and largely still are, unstrucdemocracy seems to have fallen. This advice from staff (although staff is not only the outcome of a disillunumbers have increased twice as sionment with the effectiveness of much as student numbers), and they

have a wider role, not less than the defining labour needs. So far, the universities in Ireland do not seem to be winning the debate.

John Walshe

without it the German higher education system might have collapsed. Yet it is precisely here where the anxiety for the future lies. Two years ago the federal government had of the self-governing research policy by and of the self-governing research and of the self-governing research are most acute.

For several years the need for less vocational undergraduate courses has and question the wisdom of turning and question the wisdom of turning and of the self-governing research and of the self-gov

cheaper courses

loans should be three per cent under

the market discount. As far as finance is concerned, the state does not allocate funds to continuing education, except in the case tinuing education, except in the case growing demand for raw materials. forced sales, his office will usually pay for it.

In Denmark there are three universities and two university centres. The structure of the institutions is different. At the university centres

throughout the country. There is a distinction between further and highor institutions of higher education, such as for example the technical Most institutions are under the prisdiction of the Ministry of Educa-new jobs for them. tion, whereas others, such as the Royal Academy of fine arts concerns tion has three main sections and five

directorates. Those who have left school with the upper secondary school leaving examination, the higher preparatory examination or the higher commercial examination are in principle admitted to institutions of higher education. But the increasing number of applicants means admission has to be restricted.

In addition to the Ministry of is the Council for Research Policy and Planning, also under the ministry. It was established in 1974 to lvise on research activities and it is heading six research councils: those humanities and scientific and industrial research.

nance bill for 1983 the amount is ment. 175.7m, an increase of not even 10 per cent to allow for inflation, in fact

ma. This also accounts for the fact that the role of higher education

It is calculated that funds allocated

Kroner and the finance bill for 1983 states the amount of 15 billion.

of upper-secondary school teachets.
Should, for instance, a lawyer want mate the need for Denmark to eduto attend a specialized course in cate geologists and geophysicists, a being forced sales, his office will usually committee was formed last year to dents evaluate the need for those supecialists in regard to Denmark's exploration of North Sea oil and gas reserves. The result of the committee's work was that we will need between that made them the stalwarts of mass you undertake a basic studies programme lasting three years, before geophysicists in the course of the one with a secondary education you specialize on a subject.

Besides the universities there is a vast amount of specialized institutions of further and higher education within almost all fields, is replacetions of further and higher education ment of scientific instruments. Many of them are outdated and outworn.
A special fund of 90m Kroner has tutorial the political rally and the er education, the latter being connectueen allocated to replace some of it vocational guidance officers the tion with research at the universities or institutions of higher education, Professor Birkelund.

This autumn the question of em- them an elitist image. ployment of research workers will be The solution in some cases has

researchers but the country is short trators. of money. On the one hundredth anniversary of Professor Neils Bohr in 1985, the Danish industrial sector rized the construction of nine new Education and its directorates, there will finance scholarships to 16 research workers who are highly qual-ified but have no funds. For three ified but have no funds. For three so far been built and those planned so far been built and C grade camyears they will be able to do basic research on natural science in the broadest sense. Research is not only being done

ministries have their own research The six councils had a budget in 1982 of 159.6m Kroner. On the fi-

Annelise Hopson

institutions in continuing education has only had a very limited airing so

and established close links with industry and commerce.

The universities themselves are dustry and commerce.

Particularly in the last few years students who do have to have the Ablaur have flocked to them, not least because job prospects after graduation are better. Here students have reacted to market forces, and governments, partly responding to channel personal demand, partly, for once, attempting to channel personal demand into a specific discription demand.

or at the expense of the universities.

In general, though, the governments now desperately avoid interfering with the flow of prospective students. They simply ignore the supplemented by detailed administrative decrees by the Land bureaucrative reintroduction of a widespread experience in mid-1970s, nor are sion, helplessness and inactivity in versed or even halted.
the face of this fundamental dilem-

Politics starts to lose out to tutorials spite of this it is not unusual that graduates find themselves with a debt of 100,000 to 200,000 kroner. The minister of education says that the possibility of introducing state loans instead of bank loans is being state loans instead of bank loans is being discussed at the moment. These learns should be three per cent under learns should be three per cent under

every professor.

Successive coalition governments.

careful not to upset anyone, had

neither the courage nor the political

are available after graduation.

punch to bring back numerus chuisus

the gates.
Rectors no longer drive bulletproof cars, staff no longer sneak into offices through back doors, afraid of being ambushed by belligerent stu-

Over the past two years Italy's

Yet the major dilemma still facing During the 1960s a vast number of Italian educators and legislators is university of Denmark and the Royal Danish Veterinary and Agricultural are representing a bulk which now of a decade of runaway rudicals but University, both of which, confusing-ly, are called high schools in Danish. prevents employment of younger how to turn the country's former persons since the economic situation mass universities into institutions of does not make it possible to create higher education competitive with the rest of Europe, without giving

the Ministry of Cultural Affairs and the schools for physiotherapy and occupational therapy, the Ministry of the Interior. The Ministry of Education has three main sections and five work and research ability. If the results are sutisfactory, they will to reduce overcrowded faculties and he employed for three more years weed out weak students. But the after which it is hoped that 70 to 80 Italian parliament passed a reform per cent will find permanent employ- bill in August which awarded rectors ment. This way it is hoped to estab- the power to close enrolments for lish a long-term solution to the re- any faculty once they passed 4,500 cruitment of research workers.

Denmark does not lack qualified closed numbers to campus adminis-

To appease those clamouring for decentralization. Parliament authouniversities. This brings to 22 the threaten to be B and C grade cam-

While Machiavellian politicians ture and veterinary, social science, within the academic world. Some took one step after another to disdepartments, such as the Ministry of campuses themselves were passing through their "sanitation" process. Disgruntled students, prompted by lack of facilities chaotic teaching pro-cedures, disillusionment with politics, a labour market unable to absorb the glut of graduates (72,000 last year) and their own lack of preparation for tertiary education, fled the faculties

has only nad a very timited airing so far. Traditionally adult education has not been among the tasks of German universities and few academics and politicians have the foresight to consider their future role.

The universities there every limited airing so far. Traditionally adult education has record of two million in 1978, level-record of two million in 1978, level-record of two million in 1978, level-record of two million while the number of A level students going on to university plummeted from 87 Enrolments, which luit an all time

One Rome faculty dean said: "A growing number of students realized that only if you had a high level of qualification were you likely to find employment on the labour market. And so they pushed the professors to the posterior of the professors to the professors to

academic performance. Several senior academics were flunked while unknown figures took their place. Professor Franco Ferratotti, dean of

acy of fascism, has finally been re-

three categories; ordinary professors.

associated professors and resear-

Still the new academic proletariat

selection committees more for

ideological and political motives than

chers, granting tenure to the lower echelons for the first time since Mus-

so leaving the unpopular decision of Rome University's sociology department, said: "The criteria seemed to be to disapprove those already committed to academic groups and to appoint the isolated dummkopf, the people who had no standing in the academic comunity but could be manipulated."

Worse. He claims the sudden increase in tenures and the hurried distribution of academic chairs has virtually blocked what he calls "the rejuvenation of academic staff" for

professor-student ratio for the first me, making further appointments unlikely for many years.

In fact the Italian campuses, once

and staff shortages are suddenly in the enviable position where the professorial numbers go up while the student population goes down.

numerus clausus, after the unhappy experience in mid-1970s, nor are education institutions. Verrechicular resources of staff and equipment promised in 1977, to help the universities over the next few years. Higher education policy in the Federal Republic is currently a non-policy. It is characterized by indecision, helplessness and inactivity in since the properties of or even halted.

Günther Kloss

Günt

of universities with an interdisciplinarian approach. Most of the projects are tied to the needs of the country. like the projects on water resources and the changing patterns of residen-

Coupled to the new policy was the appointment of 3,000 new researchers (bringing the number of resear-chers of 36,000) who are now mem-The walls are whitewashed, the streets clean, the Aulas reflect an air of respectability. Gone are the barricades and the police riot squads at the faculty has 10 students – one for the squade respectability.

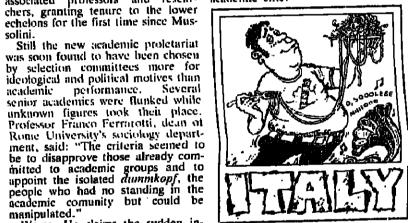
While funds are administered by the National Research Centre (CNR) and allotted directly through university administrations for distribution (to eliminate craft and corrupor entry examinations. But they did tion) academics complain that the funds arrive more than a year late.

manage recently to streamline the chaotic tenure situation and stem the One academic said: "someone along the line is making a bomb rush to faculties whose unemployable graduates prompted one minister to from the interest rates which the funds accumulate as they lay inexdescribe the country's universities as plicably waiting to be passed on "parking lots for the unemployed".

The reshaping of antiquated cam-Since 1981 most campuses have set up vocational guidance centres and seminars in conjunction with industry to advise freshers in which fields jobs pus structures along Anglo-Saxon lines - with departments, tutorials and study courses - was followed this year by creating a PhD doctorate that intends to capture the brightest A law forced professors (many of whom gave campus lectures as a students in each faculty and give sideline for prestige reasons) to teach them an opportunity for postgradu-250 hours a year at their universities are study on a fairly generous gov before they qualified as part-time ernment stipend, professors and 350 hours a year to. The doctorate i

The doctorate is seen in academic circles not only as a way to weed out qualify as full-time professors.

The archaic teaching apparatus with its omnipotent deans, all a legthe good from the bad students (something that entry exams could do) but as the first step to boost formed. A law reclassified staff into Italy's academic standards and lay the foundations again for an academic clite.



The PhD students are selected by a committee of faculty heads. A some faculties only six are chosen from 9,000 students for a three-year the next two decades.

This is because new appointees are generally young and the number of professors has outstripped the legal kins University, Bologna admitted: "If you are going to be a real university system again there is no way you can escape being elitist.

In fact the Italian campuses, once showcase examples of overcrowding mass universities of the 1970s, the pride and joy of left-wing radicals, have been dismantled to become no

more than nightmares of the past.
Sociology Professor Franco Ferrarotti said: "The concept of a mass tudent population goes down.

Tenure appointments continue to be a focus of discontent, but not the university doesn't have a meaning in Italy any more. The political willingness to have a university for every-

demand, partly responding to demand, partly, for once, attempting to channel personal demand into a specific direction, have latterly provided more money to boost this section at the expense of the universities. It is becoming obvious that Gerland's general, though the coverage of the standard to a great extent. This is decomined to a great extent. This is decomined to a professors, other stant and students and stimulation and science policism into "groups". The trend is linked to a higher income bracket.

In addition labour movement coalition and difference in had eroded the difference in wages between skilled labour and by the coverage of the universities.

It is becoming obvious that Gerland to a great extent. This forms the expense of the universities have been interpretation. The content is automatically to a higher income bracket.

In addition labour movement coalition and difference in wages between skilled labour and by the changing needs of the other professional market requirements. On the other it will never adapt quickly enough to change in research and science policies.

In addition labour movement the labour and the stant and science policies.

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In addition labour movement the stant and science policies.

In addition labour movement that the changing in the stant and science policies.

In addition labour movement that the changing in the stant and science policies.

In addition labour movement that the changing in the stant and science policies.

In addition labour and the changing in the sta

The Greeks are almost superstituous in their belief that a university degree is the golden key to life. This What replaced the system, however, gree is the golden key to life. This fetishism puts enormous pressure on the country's seven universities and six graduate schools which can barely accommodate more than 15,000 entrants each year out of 100,000 or so transs each year out of 100,000 or so the country's seven universities and six graduate schools which can barely accommodate more than 15,000 entrants each year out of 100,000 or so the country's seven universities and course units begin to each project. Of the 269 joint programmes which have received support, just community countries, in the lyceo classes, and by 75 per cent on project. Of the 269 joint programmes which have received support, just community countries, in the lyceo classes, and by 75 per cent on project. Of the 269 joint programmes which have received support, just community countries, in the lyceo classes, and by 75 per cent on project. Of the 269 joint programmes which have received support, just constitutions in lyceo classes, and by 75 per cent on project. Of the 269 joint programmes which have received support, just constitutions in lyceo classes, and by 75 per cent on project. Of the 269 joint programmes which have received support, just constitutions in lyceo classes, and by 75 per cent on project. Of the 269 joint programmes which have received support, just constitutions in lyceo classes, and by 75 per cent on project. candidates. So, about 25,000 more examinations in four preparatory get channelled, often reluciantly, to subjects, from a selection of four 10,000 drift to universities abroad.

Greece is the only European country, in fact, with roughly 20 per cent of its student population abroad. The average for other OECD countries is marks after attending a special "post-programmes, in which 400" barely 0.75 per cent. Many of those lycee preparatory centre" which who enrol in foreign universities are will also be open for those who want promising candidates who are put off to switch from technical college to by the bad name of Greek university. The centres are designed

Most experts agree that Greek universities are downgraded by fossilup for the shortcomings of secondary

as a plottening higher education cooperation of the shortcomings of secondary of the shortcomings of the shortcoming of th ized institutions introduced 50 years ago, as well as by the lack of infrastructure which inhibits research and

postgraduate instruction.

The best known fossil is the Chair.

The system has encouraged the emergence of Chair professors as autocratic despots, immune from any which, they argue, leaves too many which, they argue, leaves too many control, who delegate teaching to assistants, while they devote them- in the universities whose independselves to their private practice which ence and autonomy are guaranteed is so enhanced by the professorial title. Nepotism has been rampant.



Conservative governments should get credit for substantial edureforms. However their efforts to solve the problems of high-er education have stumbled on the dogmatic obstructionism of radical students (not least the socialist students who are now so docile), but also their inability to break up the powerful professorial establishment.

The Socialist Government which took office in October Income. took office in October last year, free from those constraints, has pushed through legislation imposing sweep-ing reforms in the universities.

versity faculties.

Those who fail will be given un-

Critics of the Socialist Government

backdoors open to state interference

One novelty that has drawn much

There will also be a "national

are so vague and ambiguous that they contain the seeds of increased

out of this fossilized chaos.

by the constitution

opening the way to 16 different uni- the list of 1982/3 awards.

The scheme of grants was intro-duced in the 1976/7 academic year

Any attempt to categorize joint programmes by subject is bound to es.

Is this poor reputation described?

It deliminate the need for costly private crammers that all Greek children as a promising instrument for promising instrum

who doubt that the facilities and staff needed for the programme can be secured in time for the coming year, are also vehemently critical of the a whole course is the subject of joint planning are likely to have a better chance of Commission support than ones envisaging the short evolutions and the short evolutions are likely to have a better chance of Commission support than ones envisaging the short evolutions. Thus predominantly language-oriented programmes account for only 31 of the commission support than ones envisaging the short evolutions. ones envisaging the short exchange of a student or two.

The same diversity is reflected in the types of institutions participating.

les of potential joint programmes have been established: to be eligible fire is the "national academy of let-ters and sciences" which is to coorcooperation must have as its aim the establishment of arrangements whereby
a) students are to spend a recognized

institutions in another member

part of a course in each institution are to be taught by staff members from at least one institution from

another member state, and/or:

courses or parts of courses are to be jointly produced for introduction into the teaching programmes at all the participating institutions, even where no staff or student mobility is involved. mobility is involved.

mobility is involved.

Within each of these groups, however, the types of programmes supported vary widely. Thus certain student exchange-based programmes may provide for students to spend half their course abroad and to receive two degree awards, while others may involve mixed groups of students working in situ on joint projects or an exchange of students for shorter period of time.

Similar distinctions may be made with regard to the staff exchange-based programmes.

Countries;

British institutions have a tradition of requiring or permitting study abroad, in languages but also increasingly in other subject areas too;

the distribution of information on grants available is relatively well organized in the UK, with the network of organizations such as the CVCP and CDP providing substantial back-up to the official distribution through the DES;

The countries;

The c The opposition claims that the provisions concerning the two bodies party contain the seeds of increased party control on higher education, as part of a wider Socialist scheme to take over all the decision-making centres of the nation and allegedly perpetuate itself in power.

There is no doubt, however, that the Socialist reforms in higher education constitute is serious extraction.

based programmes.

The financial support from the Community is intended to help cover tion constitute a serious attempt to modernize the structure of the Greek universities and restore some order costs in the initial stages of a prog-ramme, and notably its developmen-

Upwards of 50 British academics will find a pleasant surprise from Brussels when they return from their vacation. Every year, the Commission of continuing rise in the number of fears, for in response to the law the European Communities provides the European Communities provides awards indicates a corresponding re-

didates. So, about 25,000 more channelled, often reluctantly, to subjects, from a selection of four preparatory grants scheme. And as in most preparatory grants scheme grants gr course units or teaching materials.

> be somewhat arbitrary in a scheme erative programmes, in which 400 where an interdisciplinary, problem institutions of higher education, or project-oriented approach to 1,000 staff members and several course planning is so much in evithousand students are now participating. The JSP scheme, despite its various shortcomings is something. have taken advantage of the Community grants at last provides con-Certain guidelines are established to define eligibility for support. Preferential treatment is given to progression a high degree of the control of the con

of a student or two.

Thus "non-university type" institution of the ten, meeting in Brussel tions account for over a third of the on May 24, underlined the imporeligibility of a venture, three categor-les of potential joint programmes participants. An important factor here is the high incidence of courses in the non-university sector involving practical experience.

as European cooperation is con-cerned, collaboration across the binand integrated part of their course in at least one of the partner is particularly true of British is particularly true of British polytechnics and colleges, several of ich are cooperating with universi-

ties in other Community countries. Two thirds of this year's grants, 62 in all, involve British institutions, Of

is particularly well attuned to the British system of comparatively highly structured courses and low staff student ratios at higher education

through legislation imposing sweeping reforms in the universities.

The almighty Chair has been replaced by the American-style departments on a 2:1 ratio professors. Student participation was introduced at all levels, and research and postgraduate studies were institutionalized. Teaching posts became full-time jobs precluding private work, and all faculty members must reside, where, they teach.

One of the great achievements of include additional institutions of a nationwide nelwork of secondary and tertiary technical-vocational residues.

The teaching staff will have four full-time jobs precluding private work, and all faculty members must reside, where they teach.

One of the great achievements of include additional institutions in control of a nationwide nelwork of secondary and tertiary technical-vocational residues.

The teaching staff will have four gramme to include additional institutions in more than one Companion of higher education; whereast in education was the creation of a nationwide nelwork of secondary and tertiary technical-vocational residues.

finanical support to projects con-cerned with the development of de-to each project.

duction in the average amount paid thirds and three quarters of program to each project.

thirds and three quarters of program to each project. 1978/9 reported they were at time "operational" to a full or si stantial extent, and even where the was not the case, it was felt that the experience which the Commission support had made possible of teracting with partners elsewhere in the Community, had constituted significant academic enrichment the departments concerned.

Times change, however, and there can be little doubt that the budgetan cuts which have been introduced the higher education sector in whole series of member states during the past two or three years have been of an order of magnitude which cannot fail to jeopardize the ense ence of a very substantial number of the joint programmes introduced with Community - and national support since the scheme began, h this situation, the call is therefore for considerably increased budgetan allocations to the Joint Study Programmes scheme if the latter is to realize its full potential.

It is therefore of important that ance which they attached to the development of the scheme, as a mean of solving problems of academic mobility in the Community. At the It is also worth noting that as far end of their discussion, ministen

agreed that:

• Member states and the Commission should build on the experience acquired from the JSP scheme to foster direct agreements between universities and higher education is stitutions in other member states; • the Community should develop and extend the JSP scheme and to disseminate as widely as possible a formation about its results, particularly with regard to academic recog-

 Member states should support the JSP programme by encouraging in scheme, particularly where project involving mutual recognition at

obtained and exchanged on career implications of study carried out and qualifications other practical measures should be

considered for the purpose of in-creasing student mobility, notably a. further study of the social and material situation of students undertaking study abroad.
Already, a number of measures to

ensure improved dissemination of information on the results obta under the scheme have been intro-duced. At the Commission's request, the Office for Cooperation in Educ tion has begun a series of nations oformation seminars (Bonn, Dublin, Milan and Odense have been the first four venues over the past 18 months).

Thus a seminar organized by the Business Education Teachers Association (BETA) at the University of Paderborn in Germany earlier this year in which a large number of joint study programme directors in the business education field took part monts in education was the creation of a patiented eastern of a patiented section by a simple majority or memind it to the academy for a final training institutions. However by dividing opper secondary education (tycses) into grammur and technical they established at threshold at the shade of 15 for a choice that was largely treversible the treatment of the sansasment point grammur and technical they established at threshold at the shade of 15 for a choice that was largely treversible to the chair of the final treatment of the mutiliary technical vocation of the sansasment grammur and technical they established at threshold at the shade of the sansasment grammur and technical they established at threshold at the shade of the sansasment grammur and technical they established at threshold at the shade of the sansasment grammur and technical they established at threshold at the shade of the sansasment grammur and technical they established at threshold at the shade of the sansasment grammur and technical three of the protect of the sansasment grammur and technical three of the sansasment grammur and technical three of the sansasment grammur and technical three of the sansasment grammur and technical th

THE TIMES HIGHER EDUCATION SUPPLEMENT 17.9.82

Bright future for cooperation BOOKS

EDUCATION

Proud

Controls and Conflicts in Welsh Secondary Education 1889-1944 by Gareth Elwyn Jones iniversity of Wales Press, £14.95 ISBN 07083 08147

Secondary education has been a crucial motor of change in the history of twentieth century Wales. The role of the "county" or grammar schools in paign of the past fifteen years. Catholic collegence of the collegence of the past fifteen years. Catholic collegence of the past fifteen years. Catholic collegence of the past fifteen years. Catholic collegence of the past fifteen years. promoting social mobility and occupa-

that shown by their English neigh-bours. It has, therefore, been particu-larly disillusioning for the Welsh to hear recent criticisms of the inade-quacies of their secondary schools in academic attainment. Along with political disappointment and economic tical disappointment and economic decline, this has increasingly thrown the *elan vital* of the Welsh as a community and a nation open to Wales, 1880 – 1980" was published in community and a nation open to

These paradoxes are notably illuminated by Gareth Jones's valuable new monograph. The work of an able young Swansea historian, who has already written with distinction on the Tudor period, it is a major contribution to educational and to social history. It will be read with profit by anyone concerned with the growth of the British educational system in Wales

and beyond.

The book begins with a deft summary of the glorious antecedents in the late-Victorian era — the launching-pad of the 1889 Weish Intermediate Educations and the late of the launching begins the late of the late tion Act, and the hundred-odd secon-

dary schools it created throughout rural and industrial Wales in the next twenty years. And yet, even in the initial phase, administrative and policial problems arose, not simply in terms of finance and organization, but over fundamental issues of control and purpose.

The lengthy feud between the Central Weish Board and the Weish Department of the Board of Education implied a rooted divergence over the pattern and social values that the county schools should embody. The role of Sir Owen M. Edwards, Oxford history don turned inspector of accounty schools should embody. The last one of the universities is flourishing. Following recent excellent histories of the universities of t history don turned inspector of schools, is also instructive. The battles f that idealistic patriot to make Welsh chools sensitive to the needs of the

suthorities and the board. The growing prominence of the Labour party in Wales; with demands for multilateral. Im. the 1930s the hammor-blows of economic depression cut away at the financial base. Labour-led local authorities wased courageous campaigns against government meanness symbolized in the notorious Circular 170 of 1932. Pinally, the 1944 Butter Act both gave the system a new coherence and also, by pointing to the winding-up of the central Welsh Board, heralded the death of the grammar-school system with its social exclusivism. Even in the 1950s, Welsh secondary and university education: remained more genuinely democratic and broad-based than that of England Butterform also implied a crisis of confidence and identity, a medical school. About one third of the lits is somewhat misleading, and follows the social seculation and the first of the cellulation, and the first of the cellulation of the cellulation of the first of the first of the cellulation of the first of the fir

A STATE OF THE STA

lucid study, based largely on the volu-minous files of the Board of Education

Oxford and Cambridge in the early 1850s, it was found to be relatively in the Public Record Office, enables satisfactory. But the status of the

greater recognition for the Welsh language as a dynamic element in the
teaching system. Here again, the impression left is one of comparative
failure, until the Welsh schools campaign of the past fifteen years.

The Trish Universities Question was
eresolved by the Irish Universities'
Act of 1908 which created the modern pattern of the Queen's University
ty Belfast, Trinity College Dublin,
and the National University (with
Catholic colleges in Dublin, Cork

thrust from the grammar schools, in the modern experience of the Welsh people than for any other part of people than for any other part of Britain.

The story of Trinity College Dubmany of the achievements of the Welsh national movement in the present century would have been inconceived by said at once that in the past the

Religious problems

Trinity College Dublin 1592-1952: an academic history by R. B. McDowell and D. A. Webb Cambridge University Press, £35.00 ISBN 0 521 23931 1

The historiography of universities is flourishing. Following recent excellent histories of the universities of

ascendancy in a Catholic land. R. B. McDowell and D. A. Webb move swiftly through the college's first two centuries where despite many vicissi-Welsh language and to the craft traditions of the native culture were deeply stirring — but also almost entirely purpose of "orderly rule in the Prostring — but also almost entirely unsuccessful.

From the end of the First World War, problems began to mount. Indeed, the Buce departmental committee in 1920 wrote bleakly on the Welsh secondary system and even proposed that the great Act of 1889 be repealed as an anachronism. In the 1920s there were endless tensions between Welsh local authorities and the board. The growing prominence of the Labour party in Wales, with demands for multilateral-sm edified.

disillusioned final comment on the graduates become clergymen. Accor- since the book's contents are not dwardian high noon.

Gareth Jones's admirably full and by a Royal Commission along with presented comparatively. The nationtorical background, organization, control, administration, finance, naus to strike a balance sheet. At one college was always affected by the level, this is a tale of constant bickering, with conflicts galore, within and Irish Church was disestablished in without the system. Dr Jones is par
1869; by the Fawcett Act of 1873 no essentially the book is descriptive, tigularly good on the relationship of the control, administration, market, nature of provision and curriculum of the education systems at primary, secondary and tertiary levels, but without the system. Dr Jones is parwithout the system. Dr Jones is particularly good on the role of a variety of pressure-groups, the Labour party, the unions, the churches, representatives of teachers and parents, a confusion of impulses within the bureaucratic machine.

Another factor from 1920 onwards was the effort to secure a distinctively welsh educational structure, with greater recognition for the Welsh langer of the structure of the student body. This diminished, not because of college policies but because of college policies but because of the attitude of the hierarchy which disapproved of "Trinity Catholics" attending the college. Finally the book is descriptive, deliberately so, and not analytical. The concluding chapter offers some valid generalizations, but in view of the diversity of the countries discussed some analysis of the differences in their educational experience would have been more than welcome.

As Fafunwa points out, "When evaluating any educational system the "Irish Universities" one must determine the extent to

rigours of the fellowship examina-tions exhausted many for the rest of their idle careers. Unlike English universities, the college did not attract industrial patronage. Lord Iveagh of Guiness responded to the financial appeal of 1903 but the rela-

tive disengagement of Trinity College and industry (together with the lack of industry in Ireland itself) deprived the college of funds and stimulation.

It also lacked the stimulus of war which has had such vitalizing effects

on the English civic universities.
Trinity College's research contributed little in the First World War,
and Ireland was, of course, neutral

in the Second. The most important difference is that Trinity has had to

respond to political events and pressures which its English counterparts have been spared – a purge following the rising of the United Irishmen in

perceptive and sensitive in its de-scriptions of personalities. The his-tory contributes significantly to that awareness of Irish similarities, differ-

Michael Sanderson is senior lecturer

ences and issues of which Englishmen stand in need.

Michael Sanderson

educational provision but also of the social context and of the interaction between the two. In this respect the The story of Trinity College Dubvarious writers have been constrained by the limitations of space and format and only the chapter on Ethiopia succeeds in depicting effec-Britain.

Indeed, the Welsh have long flattered themselves that the grammar schools, and the legacy bequeathed to their comprehensive successors, have symbolized a unique commitment to educational excellence, far superior to that chown but their Regulah paich.

They provided leadership and a secure hierarchy of values. Even in a schools, while TCD never sank to the abysmal levels of Oxford and to the abysmal levels of Oxfo

particular society at any given time

history. It is well to be reminded now, at a time of encroaching uncertainty and turmoil, of the glorious saga of former pioneers.

Kenneth O. Morgan

Scholars of the English universities—
with the exception of Berkeley who was there 1707-13 unrecognized and undiscussed. McDowell and Webb are frank about the low quality of staff at some periods, as if the rigours of the fellowship examinations from the fellowship examination from the fellowship examinatio

chapter on Tanzania is a reprinting Julius Nyerere's Education fo Self-Reliance, first published in 1967; provides no information as to current educational practice in that country, a particular disappointment in view of the great interest which exists in the implementation of the policies discussed.

Nevertheless each author has sought to provide a genuinely informative statement about educational policy and provision in his country and students will find much useful data. It is of particular value that chapters are included on such counhave been more than welcome.

As Fafunwa points out, "When evaluating any educational system one must determine the extent to national studies is on the formal which it is meeting the needs of a school system, although we are reparticular society at any given time" minded in Fafunwa's introduction of the continuing significance of infor-mal education and there are brief references to non-formal education

The editors have set themselves a succeeded in balancing comprehen-sive description with the intended comparative and African perspective, they have nevertheless made a conribution for which many students will be grateful.

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sophers have dismissed the radical

critique by exposing the glaring illo-gic and inconsistencies of the argu-

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cialists temptation to present students with an evaluation of individual analyses in isolation from their scholarly context. Thus R. S. Peters's analysis of education and P. H.

EDUCATION

Seeing both sides

Philosophical Issues in Education by John Kleinig

Croom Helm, £12.95 and £5.95 ISBN 0 7099 1517 9 and 1518 7

John Kleinig states that *Philosophical Issues in Education* is a textbook for use in philosophy of education courses. It is organized, as so many of these have been, as an examination of a series of topics likely to be dren's rights or religious education, of focal concern to those engaged, at whatever stage in their careers, in of feeling by merely demolishing the reflecting on the aims and procedures of education. But there ends its similarity with previous textbooks

in the field. Although philosophical discussion of educational issues has grown increasingly sophisticated over the past two decades, textbooks have re-mained introductory and low-level, aimed largely at indicating the broad outlines of problematic areas for students on short courses in initial training. Kleining's book represents a coming of age for philosophy of educa-tion as a field of study, offering serious students a thorough survey, synthesis and critique of specialist work done by a wide range of philo-sophers of education on 20 chosen Teacher Learning topics. His attempt to provide readers not only with a fresh insight into the topics under discussion, but also ISBN 0 7100 9020 X

with a synoptic view of the signifi-cant work previously done in the field is the source of the book's A Review of Research in Teacher Education by E. C. Wragg many strengths and its occasional NFER-Nelson, £3.95 While clearly aware of its draw-ISBN 0 85633 247 X

backs, Kleinig opts for the topic approach on the grounds of its pedaapproach on the grounds of its pedagogical advantage in beginning "at the level at which people express their puzzlement". This being so, it is most successful in dealing with areas generally found puzzling, such as "intelligence", "equality", "competition", and so on. It is rather less to when focusing on the concents of Gwyneth Dow has produced a so when focusing on the concepts of "teaching" or "indoctrination". One suspects that the space devoted to these and related analyses is a function of their prominence in early writings in the philosophy of education. However, the range of tonics tion. However, the range of topics treated is broad, and includes several to which insufficient attention has to which insufficient attention has

siderable interest to specialists.

treated is broad, and includes several to which insufficient attention has been paid. Where the ground is well-trodden, Kleinig always has further insights to offer, so that this book is valuable not only to the serious advantage of the Australian advantage. anced student, but is also of con-experiences of six Australian educators who were involved in a serious Kleinig's chosen method of approach is to refine and utilize the and sustained attempt by the State of Victoria to reform its centralized rity developed in earlier concepsecondary school curriculum and give schools a new autonomy in deciding tual analyses related to each area examined, without falling into academic sterility or begging fundamental questions by arbitrating in forces of the lineuistically spectioned. damental questions by arbitrating in favour of the linguistically sanctioned status quo. Though no relativist, he emphasizes that conceptualization necessarily takes place in a social and historical context, and that conhistorical context, and that consciousness of this fact points up the prescriptive limitations of analysis.

buses for a large proportion of accreated and the book is organized under six classificatory headings, for example, "surveys of research" and "teaching"

sumption in favour of this principle, and the chapter on authority could be read with profit by many who have delivered lectures on "authority" in simplified schema for so long that their thinking has become stereotyped. He thus carries off the difficult task of maintaining a high standard of academic rigour without ceasing to be stimulating and often problem and discusses its search are listed at the end of the experiences of an imaginary teacher. Muria, who is of mixed ethnic backing and teaches in a comprehensive community school in an ethnically mixed urban area in Australia. The problems she confronts are just as real for teachers in Britain or North America as they are for her. Each chapter of the book takes an educational problem and discusses its Throughout his book Kleinig resists the philosopher's temptation to demolish arguments he considers

tional problem and discusses its general features before setting it within the particular context of Maria's school. As a device for unit-

piecemeal, rather diverse selection of topics, I think it succeeds. It also enlivens the presentation and make

the general relate to the specific.
The subjects selected include topic-centred teaching, curriculum development, the multicultura school and the core curriculum. The chapters are sensibly critical and constructive rather than revolutioner For example Barnes and Dow kok sensibly at topic-centred teaching. They convincingly expose the fullity of integrating subjects for the sake of integration, so that "a topic involves only the work which the subject matter warrants". They expose the weakness of many topic designs which retreat from important controversial issues and force human affairs into "objective/scientific" frameworks devoid of meaning.

The authors of the chapters vary in the degree to which they are able to integrate Maria into the subject under discussion. At times the lext becomes narrowly prescriptive and almost "cook book" in its approach. On other occasions Maria is used to sidestep large issues with important ramifications for the argument being presented. Nevertheless the book manages to retain its purpose. The task of rethinking a radical approach to education goes on within its

It is difficult to be fair in one's criticism of Ted Wragg's review of research. It was originally written as a report commissioned by the Social science Research Council and this might have imposed requirements on the author (deadlines, definition of task, and so on) which have damaged the outcome. The book is in fact a list of research projects, each reported with a few assets a research projects. reported with a few sentences about the findings. For example, we learn that "Fink (1976) used diaries, questionnaires and observations of 25 student teachers in Baltimore during their ten-week teaching practice". We learn that she found that the

prescriptive limitations of analysis. He is adept at throwing fresh light on analyses which through familiarity have become the standard stock-intrade of philosophy of education and at questioning the supposedly fundamental nature of traditionally "basic" arguments. The chapter on equality accordingly casts serious doubt on the generally accepted presumption in favour of this principle, and the chapter on authority could

flawed, and the education spe- ing what would otherwise be a at the University of Sussex.

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Heinemann Educational for the

If, as Ralph Nader put it, "informa-

records debate

by Lucy Hodges

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underlying stance, best summed by Kleinig's advice to his readen that in such complex issues "there is Hirst's work on the forms of know-ledge are presented neither as the something to be said on each side, and what is wanted more than any thing is a sensitivity to the opposition viewpoint and a willingness to reconsider one's own". However, Kleinig's range and subtlety over a given top, when he is clearly writing to length presents a challenge for his intended audience. In spite of admirably fur references and an excellent bibliogra phy, considerable familiarity the existing literature - or a willing ness to acquire this before returning to the argument - is required of un student who wishes to benefit fully

education: synthesis is left to the

reader. But there is a consister

from this work. For students on masters courses in education and for specialists in other fields within educational studies. Phi losophical Issues in Education will a a long-standing gap in the literature for energetic students in initial training it can provide a thorough map of the field and may tempt them to explore it more fully.

Ruth Jonathan

Ruth Jonathan is lecturer in education together the separate issues to make at the University of Edinburgh.

tion is power", communicating that information establishes it with an authority which may bear no resemblance to the significance of the ori-Out in the Open? and Calling

Education to Account are two books, different in purpose and in style, which nevertheless share a common

preoccupation with the nature and effects of communications about schooling. While Lucy Hodges is concerned with school recording and reporting about individual pupils, Robert McCormick's reader is about the school's recording and reporting about itself. Taken together, the two books offer an interesting paradox. The professional concern to open up the school to external and self-scrutiny as the basis of institutional accountability found in Calling to Account contrasts sharply with Hodges's monograph in which teachers' professionalism takes the form of a fierce defence of the confidentiality of individual records.

Out in the Open? is a timely and succinct exploration of this confidentality issue. Hodges explores some of the characteristics of pupil records and the more or less justified fears which have led to the growing pressure for greater public, particularly parental, access to them. The book describes the conduct of the campaign in this country, the reaction of local authorities and teachers, and the outcome of the earlier and more iolent struggle waged by university tudents. Comparison is made with tradition of confidentiality in other professions thereby opening up much more general issues, such as the computer storage of personal data and the confidentiality of all

kinds of public records. in other countries such as the USA, Sweden and Australia, Hodges shows how Britain's lack of public concern about the collection and storage of data on individuals is reflected in our lagging far behind most other western countries in the general field of the countries and Alice Laing consider the situation of very young children with a variety of handicaps.

Output the situation of very young children with a variety of handicaps.

Output the situation of very young children with a variety of handicaps. In a useful chapter on experience lagging far behind most other west-ern countries in the general field of "subject" access to data, whether on computer or not. Certainly it is in-itially surprising to find a tightly bureaucratic and centralized – not to say elitist – country like France hav-ing made far more wide-reaching resay elitist - country like France having made far more wide-reaching rekinds of record including school records, than Britain. In fact it is just that characteristic tradition of an informal working consensus between teachers, local authorities and parents in a highly decentralized education of the establishment of the establishment of the easy and fluent system of companion of the potentiality of this partnership without the knowledge that teachers and other professionals supply. It is a pity that Chazan and Laing do not expand on the meaning of easy and fluent system of companions.

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bland. The result, according to the access lobby, is that teachers are awarded professional inviolability while lacking the strictures of the formal code of other professions. for the information they write and

with the elaborate and painstaking into an "orientation" process in provision for various forms of indi-vidual and institutional self-examina-tive role in course choice. If it does, tion and accountability described in the failure to include individual pupil Calling Education to Account.

Although mostly extracts of preschool's overall accountability is likeviously published work, the reader includes several excellent new articles - notably those by Robert Wood and Caroline Gipps and by John Penrce on local authority monitoring and by Lawrence Stenhouse on the ovement in this country.

The sophistication of thought and chniques now evident in the pursuit of accountability in education has led to a widespread acceptance among chools of the need for careful and

interests of the pupil since without it detailed reporting and scrutiny. Para-reports would become hopelessly doxically it is perhaps this same doxically it is perhaps this same preoccupation with accountability which has encouraged a greater confidence among teachers in their role hence in their duty to make "profes-They are thus accountable to no one sional" judgments. The current trend in this country towards "profiles" are quite free to pass such material and continuous school records, parti-This autonomy compares strangely ly to develop, as it has in France, which teachers play a crucial direc-

ly to present many future pupils and parents with an educational fate they can neither understand nor resist. The more formal or contractua aspects of accountability are still confined, however, to institutiona use of case-study research. As such it provides a comprehensive coverage dividual, as well as institutional reof the principal issues which have cords, would greatly strengthen the characterized the accountability school's claim to be accountable.

Patricia Broadfoot

Special

The Education of Deaf Children: ssues, theory and practice by Stephen P. Quigley and Robert E. Kretschmer Edward Arnold, £9.50 ISBN 0713163534 Integration in Action: case studies in the integration of pupils

with special needs by Seamus Hegarty, Kelth Pocklington and Dorothy Lucas NFER-Nelson, £10.95 ISBN 0 85633 238 0

The Early Years by Maurice Chazan and Alice Laing Open University Press, £11.95 and £4.95

ISBN 0 335 10050 3 and 10052 X These three books are concerned

learning accelerated as much in the with the education of children with special needs. Stephen Quigley and Robert Kretschmer provide a scholarly and substantial account of the education of deaf children in American schools, Seamus Hegarty, Keith Pocklington and Dorothy Lucas report on integration of children with learning difficulties, physical handicaps, hearing impairments, visual impairments and communication disorders in ordinary schools, and Maurice Chazan and Alice Laing

report that is a cause for concern—though some of those reported by Hodges are disturbing—as the all too common inadequacy of reports in which one meaningless or derogatory word or phrase is used to common in the standard and the non-handicapped. word or phrase is used to sum up a child's progress for the whole year. The government has recently ruled explicitly on this issue arguing that professional confidentiality is in the confidential conf

Patricia Broadfoot is lecturer is education at the University of Bristol clude the handicapped children's views of the integration processes. While they report favourably on the effective social integration of the handicapped children, there is a noticeable silence about their academic progress. It is true that in all the programmes but two the authors de-scribe how the monitoring of the children's progress was done, but they do not present the results. In only one study of the 12 reported is there any reasonable data on the children's academic progress. For the

most part we have only rather gener-

al comments from staff and parents on improvements noticed. Reassurance that children with, for example, learning difficulties scemed happy in the ordinary school to which units were attached, that they were not teased, that the main vears ago. school staff were sensitive to their school staff were sensitive to their difficulties, that a flexible timetable allowed for individual learning — all this is good news. But it is not enough. Studies of integration must demonstrate that successful academic demonstrate that successful academic properties accelerated as much in the

integrated situation as in the segre gated.

Nor do the authors provide any information about the fortunes of that perplexing category of handicap-ped children, the maladjusted. It seems odd that while the advantages of integration for the most recently recognized category of handicapped pupils - the ESN (S) - attract attention, there is a continuing silence about integrating a category of hand-icapped total

In Chazan and Laing's lively book, one of the clearest messages to emerge is the need to approach the parent of handicapped children with sensitivity and honesty. "Parents as Partners" is a good slogan, but is not as simple as that. Parents beset with anxieties about their child and unaware of normal patterns of child development, are not able, as the authors demonstrate, to take advantage of the potentiality of this partnersh

tion system like our own which has bitherto tended to encourage a considerable degree of trust between parents and teachers in this country. The growing access lobby which Hodges describes must be understood as part of the contemporary accountability movement, itself a manifestation of the tendency to acapegoat teachers in recent years. In this sense the 1977 Taylor report that is a cause for concern — the program report that is a cause for concern — though sense the success in a highly decentralized education system of combination on which that can be internalized as a language foundation on which is thandicapped children's difficulties. But difficulties and special needs are not the same. What is special about the needs of handicapped children's achievement of it is deaf children's achievement of its deaf children's achievement of the needs of all children, and then distance thandicapped children's difficulties. But difficulties. But difficulties and special needs are not the same. What is special about the needs of all children, on the success in educational provision for them.

We might wish that Hegarty, we might wish that Hegarty, about a minority of children as if the needs of all children, and then distance thandicapped children's achievement of the needs of all children, and then distance thandicapped children's achievement of the needs of all children, and then distance thandicapped children as a children, and then distance thandicapped children as a chievement of this goal which represents the touch-stance are not the same. What is special about the needs of all children, and then distance thandicapped children as a chieve ment of the needs of all children, and then distance thandicapped children as a chieve ment of the needs of all children, and then distance thandicapped children as a chieve ment of the needs of all children, and then distance thandicapped children as it then needs of all childr

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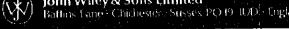
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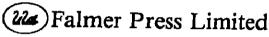
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In part, this is because the initial costs of media instructional systems were frequently underestimated, while student demand was frequently overestimated. In addition, hurdware tended constantly to outstrip "software", – by which is meant not just the preparation of materials but also

the training of teachers to make effective use of hardware, not to mention maintenance of equipment mention maintenance of equipment rather middled discussion of the mention restricted in the mention of the mention o n good working order. For the rest. however, the new pessimism about educational media is simply a reflection of the recent disaffection with education itself. Nevertheless, the tional achievement, and a section of imperatives of rising educational costs will make new instructional media ever more attractive in the son. This leads into a detailed review future. The question of educational media is with us to stay.

In the circumstances, there is as

appropriate methods and techniques the tendency to overemphasize con appropriate methods and techniques for evaluating media proposals. Economic analysis provides those methods and techniques in that it can furnish a framework which identifies try; the computer-assisted instructional system of the configuration of the configurat and measures all the costs and be- at system PLATO at the University nefits of a media decision. In prac- of Illinois; the Telesecundaria project value of economic analysis of media decision. In proceedings of the equation and have left the contracted on the equation and have left the contracted on the equation to Asia. While the tone of the book is evaluation of benefits to others, not- and Africa, where media projects in generally favourable to the new edu- ably educational psychologists. That cational media, Leslie Wagner never- this is an unsatisfactory arrangement theless acknowledges that the enthu- is made clear in an excellent chapter chapter draws the strands together in siasm of the 1960s for the new on the identification and measure- a cautious but affirmative conclusion gadgetry has now given way to a ment of educational outcomes. Educertain measure of disillusionment. cational psychologists, on the other In part, this is because the initial hand, have evaluated educational

general principles involved in media cost analysis, which owes much to of five continuing media projects the Open University in the UK (reflect In the circumstances, there is as much need as ever to establish OU, which, incidentally, exemplifies

> education are now proliferating, would have been welcome. A final This is the first book by an economist on educational media that can

Teaching physics

The Education and Training of Physics Teachers Worldwide: edited by Brian Davies John Murray, £4.95 ISBN 0 7195 3922 6

To visit another country is to find that everything is the same but yet different: coffee is still coffee but comes in different sized cups and organizer of flavours; the police are still the sics project. police but seem to work on different assumptions; foods having the same names differ radically, but foods having different names are the same. It

is precisely so in education.

We can ask whether or not all teachers in secondary schools are graduates and even get an answer. Sequences graduates and even get an answer, but what does the answer mean? We can find out how many hours, for The Creative Use of Calculators how many years, of physics go into training a physics teacher, but what happens in those hours? How does it come about that Hungarian physics teachers are so often female and very clever? How do we tell the difference in South America between the it is easy to spend more than the cost

I find Brian Davies's painstaking about the learning and teaching of mathematics'; so we expect – and we get – something with a mathematical challenge for the reader. to collect them from knowledgeable

physics students. all. The book does not, nor does it claim to, and perhaps it could not, convey those essential differences, aspect to consider; enjoyment and like the flavour of coffee or the success with the later parts depends, attitude of the police, which make all the difference. The correspondent from Mexico mentions their 30 per More seriously, the many "key-sequence" throughout the head seriously. cent illiteracy rate (the Brazilian ences" throughout the book do not does not mention the higher rate there) but neither sees it, or other have three calculators each of which such factors, as vital to knowing gives a different result from the key-what training someone to teach phy-what training someone to teach phywhat training someone to teach physics to children should be doing, learning, or thinking about. The socialist countries in the survey mention the importance of social or political education, but what difference distributed in the key-sequence in line four of page 48. So disping into the book has its dangers.

However, this last criticism can, in fact, be seen differently – almost as a justification of the book itself.

too much. The book is a modest, Unthinking following of a routine, and at a factual level, valuable whether of a standard pencil-andand at a factual level, valuable product of the little known private organization GIREP (Groupe Internationale de Recherche sur l'Enseignement de la Physique) which has, almost entirely through the efforts of a few individuals, built up during the past 15 years an international network of people interested in physics teaching and determined to improve it.

Jon Ogborn

Jon Ogborn is reader in physics at Chelsea College, London, and joint-organizer of the Nuffield A-level phy-

by J. P. Killingbeck Penguin, £1.95 ISBN 0 1402 2336 3

With prices of calculators still falling, products of state and private univer- of your machine on books about sities? How do we assess the essen- using it. Since there is always an intial component of Marxist-Leninist theory in the education of physics teachers in the USSR?

It is for these kinds of reasons that the component of Marxist-Leninist struction manual supplied, why is it necessary or desirable to buy any more books? Dr Killingbeck's book, has been written to influence ideas

First, a few criticisms. As with all sources in 33 countries and to pre- books aimed at a wide readership sent them in very informative uniform diagrams. Not because its facts at which to "pitch" the text. The are trivial, for again they are not: reader who needs the rapid revision they show the impact of differing tension of decimals and exponents with various types of training structure, or later chapter one opens will find the later chapters hard going. And how "everyday" are some of the calcula-tions of chapter two - unless you are My puzzle is what to make of it a teacher or someone who regularly

tion the importance of social of political education, but what difference that makes to science teaching (in a country where the political system claims to be scientific) never shows through.

We should not, however, complain forces us to think about mathematics. children (and adults), the calculator

meanings of the operations which it

Despite the criticisms above, there's much to interest, stimulate and challenge anyone with an interest in mathematics. It is teachers, however, who will find it of most value. There are many ideas to enrich the teaching of mathematics. Some sections suggest alternative ways to study family iar topics (for example, compound interest, differentiation); others, ways in which a routine piece of work can be enlivened and seen afresh or extended (cube roots from square roots, recurring decimals) others point to changes in the school curriculum which are suggested by the calculator. Some of the formulae given in the book provide excellent opportunities to ask "Why does it work?" and set pupils off on an

investigation.

Teachers should study this book.

They will need to develop the ideas it contains to translate them into classroom material, but that should not be too difficult; finding the ideas is the difficult task and there are many here ready to be used.

John Hersee

John Hersee is executive director of the School Mathematics Westfield College, London.

THE SRME/LEVERHULME **CUT NOW 4** volumes

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pinpointing the strategic choices open to higher education in the 1980s and From: The Society for Research into Higher Education at the University, Guildford, Surrey

GU2 5XH.

structure and governance,

NOTICE BOARD

Noticeboard is compiled by Patricia Santinelli and Mila Goldie

Chairs

Forthcoming Events:

A une-day conference on further education and employment for young people with special needs, on October 25 will launch the final needs, on October 25 will launch the final report of a three-year original Greater London-Association for the Disabled research project on further education facilities and employment prospects for ESN school-leavers. Fee £10,00, Details and registration from OLAD, 3 Thorpe Close, Ladbroke Grove, London W10 5XL.

South West London College (counselling sec-tion, management studies department) are ugain offering an evening course on becoming a self-managed learner. Designed for any educa-tors, or others, who are interested in theories and techniques for hulping others towards autonomous and co-operative learning. Partici-pants will be encouraged to learn by doing. Held on Tuesdays, in Peckham Rye, Details from Brigid Proctor, 4 Ducks Walk Twick-enham, Middleysex, TW1 2DD.

The Certified Accountants Educational Trust is presenting three courses in the autumn for non-finance specialists. They are: Accounting and Property and Estate Managers, October 13: Introducing Financial Accounting October 5 and November 2: Introducing miniagenient accounting October 6 and November 3. All courses are being held in Central London. They have been designed specially for non-accounting and finance. Details from Sandra Phillips on 01-242 6885, ext. 252. 2 6855, ext 252.

"Youth, leisure and unemployment", November 20. A Leisure Studies Association seminar on aspects of regional recreation strategy. Details from Oliver Learnam, Liverpool Polytechnic. Barkhill Road, L17 6BD

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James Joyce, a centenary celebration in the Goldsmiths' Theatre. The London School of Hyglene and Tropical Medicine, Keppel Street, Gower Street, London WC1. Mondays October 25 - November 29 1982, - 6.15 - 7.45. Fee £6.00 for six lectures, £1.25 each. Inquiries to Miss Winifred Bamforth and Mrs Mary Wood, Special Courses Section, Department of Extra-Mural Studies, 26 Russell Square, London WC18

*How to Prepare Marketing Plans? A Cranfield seminar for chief executives, directors and senior managers on September 27 and 28. Some of the objectives: to isolate the external and laternal factors, called to propose the content of internal factors critical to company success, identify market-centred opportunities, set realists objectives and devise strategles to achieve objectives, the foe is £225. Inquiries to Mrs. J. S. Lynam, seminar administrator, Cranfield School of Management, Crantield, Bedford MK43 OAI.

favourite sketch. The trio are all ex-pupils of their first production called 'The condition'. 1982; February 7 and 3 1983, March 28 and 29 1983, June 13 and 14 1983 (contact Malcolm McDonald at Crunfield for further informa-

Members of the Mivvy Mime Company feel a right Charlie . . . and a left Charlie . . . and a middle

Charlie. Graciela Gil, Graham Allum and Linda

Coggin sport their Charlie Chaplin outfits for a

internal factors critical to company success, identify market-centred apportunities, set realists to objectives and device strategles to achieve objectives, the foe is £225. Inquiries to Mrs.

3. S. Lynam, seminar administrator, Cranfield School of Management, Cranfield, Bedford MK43 OAL.

Forthcoming Marketing Planning Seminars for Directors and Senior Management are planned on the following dates: November 10 and 11 they are involved. Details from Mrs Penny, 1

Student Management, Coombe Lodge Study Conference Wednesday 27 - Saturday October 30. Student management provides a perspective of college learning systems based on a review of student experience. This module links student activity with the formal procedures of the department and the college. Some of the topics: student selection and induction; monotoring and recording academic and personal development of individual students; the nature and consequences of the contract between college and student. Fee £45.00. Details from The Registrar and Clerk to the Governors, the Further Education Staff College, Coombe Lodge, Blagdon, Bristol, BS18 6RG.

Ronald Wilson's Mime classes at the City Literary

institute's Mime School in London, and formed

their group last year. They are now touring with

Appointments |

Professor Dureen Massey, proviously principal scientific officer at the Centre for Environmen-tal Studies and since 1980 sentor research fellow at the London School of Economics has been

at the London School of Economics has been appointed to the chair of geography at The Open University
Professor Phillip II. Pulk, currently professor of equity and a former province chancellor, at the University of Bristol, has been appointed to the chair of equity in the school of law, at the University College at Buckingham.

Overseas

Professor Ray MacLend, professor of science education at the University of London, has been appointed to a chair of lustory at the University of Sydney.

Professor Geoffrey Goldspink of the department of zoology, has been given leave of abscience, multally for two years from October 1, 1982 to take up a position at Tufts University, Boston, where he will help to establish a new school of vetermary medicine.

Recent publications.

Using-Maral Courses Open to Adults 1982-83. I transformed contress open to anomy 1962-983. prospecting, which lists courses for 1962-1983. Available from the Department of Extra-Mural Studies at 20 Russell Square or can be posted on request to the Information Office at the same address.

Continuous Professional Education, CAET new Continuing Professional Education, CAE: New course programme with four major revlied sections and over 120 different course titles designed to meet training requirements, plus information on all the latest developments in colloquia, forums and CPE audio packages. Free copy from CAET, P.O. Box 244, London WC2A 3EE.

Civil Service Careers 1983, a booklet providing information on clerical and executive careers, which require no specialist knowledge as well as specialist careers, where more specific qualifications are needed Available from Management and Personnel Office, Civil Service Commission, Alexon Link, Busingstoke, RC21 IJB.

The Professional Qualifying Examination and Membership Regulations - 1982/83 (price 11.30) which gives information about the courses of study available various ways in which persons may meet the educational standards for professional membership of the institute. Particulars of the syllabuses of the qualifying examination and information in connection with post-qualifying education in transport are also given Available from The Chartered Institute of Transport, 80 Portland Place, London WIN 4EP.

Open University programmes September 18 to September 24

Saturday September 18

Management and the School. Shorefields
 School: Meeting a Need (E223; prog 5).
 An Ageing Fupulation. Voluntary Workers in the Community (P252; prog 8).
 Schooling and Society. Education in Pottugal (1) The Struggie Hondins (E202; prog 10).
 Thistory of Mathemetics. Shaking the Foundations (AM289; prog 10).
 Schooling and Community Relations.
 Punjab to Britain 3: Here to Stay (E354; prog 10).

May Change (Th-N)s or Section Life: The Older As Indeediction of Cataloga, The Distriction of Cataloga (The Distriction Ca

23.20 Open Forum - 30 (prog 30).

23.40 Partial Differential Equations of Applied Maths. Shallow Water Waves (M321; prog 7).

24.00 Maths. Shallow Water Waves (M321; prog 7).

24.00 Mechanics and Applied Colculus Rotating Frames - Tutorial (MS F282, prog 7).

25.20 Mechanics and Applied Colculus Rotating Frames - Tutorial (MS F282, prog 7).

26.10 Sunday September 19

28.00 Mechanical Services in the Chaena (A305; prog 2).

28.00 Mechanical Services in the Chaena (A305; prog 2).

29.00 Man's Religious Ouesi Krishna and Christ (AD208; prog 15).

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RADIO 3 (VMP)
5.68° Florments of Music. Recognising Structures 5.58 Figurents of Music. Recognising Structures (A241; prog 15).
6.18 Contemporary Issues in Education. An 2025 Part J. Mussion Methasolah (E201; prog 15).
6.35 Thought and Reality: Central Themes: in Wittgenstein's Philosophy Darwin. "Genesa" and Contentiction (A402, prog 15).
6. 23.20 Finvironmental Control and Public Health Air Pollution and the Public Health Impectators (PT272; prog 14).
6. 24.00 Art and Environment. Making "The Night-cleaners" (TAD202; prog 14).
6. 24.00 History of Architecture and Design 1890-1909.
6. 10.20 Social Work. Community Work and Sectety Womens Aid: Can the Law help? (DE206; prog 15).

83C2
6.40° The Earth: Structure, composition and evolution Geochemical Mapping (\$237, ping 17).
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6.16 The Computer. Microprocessors (TM221, prog 13)

8.36 An introduction to Colculus The Exammation 15).

RADIO 4 (VHF)

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Commissions autary will be determined in accurdance with qualifications and apperione. Present salary acades are: Lecturers. NZ\$21.660 - \$25.684 per annum: Senior Lecturers NZ\$27.088 - \$30.127 per annum: Conditions of Appointment and Method of Auplication are available from the Aesistant Registrar (Academic Appointments), University of Auckland, Naw Zealand,

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Applicans should have a higher degree and teaching experience at tertiary level, and be fluant in both Italian and English. The appointer shouth have a specific interest in Literary Theory and critical methods. Experiise in one of the following areas will be an advantage: Renatisance Thought. Eighteenth Century Thought. Contemporary Literature and History of ideas. The appointer will be expected in make a communion to language teaching at all levels.

The showe positions are expected to be filled by a probationary appointment of three years, capable of leading in tenure but, if all the University a requirement for tenure are deemed to be satisfactorily inst, tenure may be granted at the time of appointment. The University reserves the right and to proceed with any appointment for financial or other

ITALIAN

nake a commount at all levels.
31 October, 1482.

Monash University Melbourne

PSYCHOLOGICAL MEDICINE

The Chair of Psychological Medicine which will become vecant at the end of 1982 upon the retirement of the present Chairman of the Department, Professor Wilcomids

V. I ronside.
The Department of Psychological
Addicine is based at Prince Henry's
(osoital and has teaching responsible)

Medicine is hazed at Prince Henry's Hospital and has teaching respossibilities in each year of the medical course. The Professor will be expected to conduct research and co-ordinate the teaching of Psychological Medicine (including institutional Psychiatry) and will be appointed as a member of the specialist medical suff or Prince Henry's Hospital. The Professor will have the co-operation of the staff of Hospital Departments of Psychiatry at Alfred and Frince Henry's Hospitals, which are the two general teaching hospitals of the University, and of Queen Victoria Medical Centre where the Departments of Obsietrics & Gynaccology and Pseciatrics age to provide the Department of Obsietrics & Gynaccology and Pseciatrics age to calculate the properties of the Psecial Centre where the Departments of Obsietrics & Gynaccology and Pseciatrics age to calculate the properties of the psecial pse

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Universities



UNIVERSITY COLLEGE GALWAY

TEACHING APPOINTMENT IN MECHANICAL ENGINEERING

Applications are invited for the above temporary post from academically qualified candidates with appropriate industrial or research experience. Preference will be given to candidates with experience in mechanical engineering design and duties will include the toaching of courses in both B.E. and B.Tech. degree programmes. An opportunity will be allowed to the appointed for research activities or study towards a post

The appointment will be for a maximum of 12 months from October/November, 1982. The salary will depend on the qualifications and experience of the appointee and will be within the range IRS8,000 to IRS15,000. The closing date for the receipt of applications is October

Further information available from the Registrar (091 - 24411).



LAW

Applications are invited for a full time permanent post as ASSISTANT LECTURER OR COLLEGE

LECTURER

in the Department of Law. The salary scales are: COLLEGE LECTURER

IR£10,169-IR£11,895 bar IRE11 918-IRE15,234 p.a.

ASSISTANTLECTURER IR£8,849-IR£9,599 p.a. Application forms and further details of the post may be obtained from the undersigned. Latest date for receipt of applications is I November, 1982



Temporary Lecturer or Senior Demonstrator required immediately for teaching/demonstrating duties in Materials Engineering at undergraduate levet. A degree or equivalent qualification in a relievent area is required. The appointment will be for a period to June 1983.

Salary on scale up to £13,500 according to experience. Some assistance with relocation ex-Enguiries and applications (in triplicate) giving brief personal details to D. A. S. Copland, The University, Southampton SOS 5NH, by 27 September, quoting reference 2023/A/THES.



Post I requires experience or interest in optical-fibre or other area of optical electronics and should have an horizontal degree in an appropriate discipline: CONFERENCE OFFICER Applications are invited from graduates or professioning the post of Conference of the post of Conference officer tennels for an initial period of three years from 1 January 1983 or as soon as possible thereset a Salary on the scale for the post of the possible of the post of the possible of the possi Post 2 requires an honours degree in Electronic Engineering, or related discipline, and product development or research superience in some main-stream area of applied electronics including experience with multipue circuits.

Salary acale: £6,378-£13,505 per annum. Initial salary to depend on qualifications and experience. U.S.S. experiences on the salary to depend assistance lowards relocation expenses. assistance foreign recognion expenses.
Further particulars may be chained from D.A.B. Coptand, The University, Southernelon SO9 54H, to whom applications (7 copies from UX application) (7 copies from UX application) (8 copies from UX application) (



Applications are invited for the following posts for which applications close on the dates shown. SALAPHES (unless otherwise stated) are as follows: Lecturer SA20, 983-5A27,539. Further details and application procedure may be obtained from the Association of Commonwealth Universities (Appts), 35 Gordon Square, Lendon WC11 OPP.

The Flinders University of South Australia **LECTURER IN** SOCIOLOGY

School of Social Bolences

Candidates should hold a Ph.D. in Sociolog and have practical research experience. Applicants whose interest is in any field of Sociology will be considered, but a specialised interest sociological theory, sociological development, medical sociology, women's studies or industrial sociology would be an advantage.

The successful condidate will be expected to make a significant contribution to flust year undet greature contribution to flust year undet greature courses in sociology and to the teachir of research methods. The position is available from 1 January, 1983.

An appointment will not be made above the tixth level of the scale, viz. \$425,659.

15 October, 1982. School of Social Sciences

La Trobe University **LECTURER IN MUSIC THEORY** AND COMPOSITION School of Humanities Department of Music The position is Tenurable or to commence in 1983.
The Music Department's r

ABERYSTWYTH

THE UNIVERSITY

Application forms and further particulars can be obtained from The Register. (Staffing Office). The University College of Wales. Old College, King Alrent. Aberystwyth, 5Y23 2Ax (Tel. 0970 3177 Ext 207). Cloging date for applications. Friday, 8 October 1982.

DURHAM UNIVERSITY

assistance.
Council reserves the right to make no

MATHEMATICS Applications are invited from highly numerate granular in highly numerate granular with computing exactions are in the post of Research are in the pleasant of usesble under the continuous of Dr p. J.

1. The successful applications of Dr p. J.

1. The successful applications of Dr p. J.

2. The successful applications of Dr p.

2. The successful applicat Salary £5,590 per unnum on Ronge 18 plus superannustion. Applications (3 copies)
numbling three referees
should be sent by 1 Octotor 1982 to the Hegistrar,
Science Leberstories,
South Road, Durham DH1
3LE, from whom further
particulars may be
abtained, H1



Control applied to mechanical equipment or manulacturing processes or systems. Design including CAD. Manufacture Including CAM.

Manufacture including CAM.

The eventual title of the Chair will be determined by the field of interest of the successful candidate. Further particulars may be obtained from The Registrar and Secretary, University of Stradford, Bradford, West Yorkshire, BD7 10P.

The closing date for receipt of applications is 29 October, 1982.



ABERYSTWYTH THE UNIVERSITY COLLEGE OF WALES

The College Council Invites applications for appointment to the Chair of Biochemistry and Agricultural Biochemistry.
Further particulars can be obtained from the Registrar (Staffing Office), The University College of Wales, Old College, King Street, Aberystwyth, Dyted, SY23 2AX, Wales, U.K. (Tel No 0970 3177 Ext 207) by whom applications (12 copies) together with the names of three referees, should be received not later than Friday, 15 October 1982.

naccology and rescounts are over delicion, assistance in teaching is wided by tail of the Mental Health distant the Health Commission of storia, located at Royal Park and rundel Hospitals where students of owerks in residence during their Applicants from overseas may submit one application by airmail. The College reserves the right to fill the Chair by invitation. course.
Solary: \$A55,377 per annum which
includes a clinical loading of \$A8,400 per
annum. Superannuation, travel and
removal allowance, temporary bousing

> DEPARTMENT OF CHILD The Council of the Uni-

The Council of the University has approved the lifting of a moratorium imposed on the filling of the Chair of Child Dental Heattle, previously advertised in Arpil/May 1981, and applications are invited from registered dentities of the council practitioners. The salary be used for within the register of the council practitioners of the council practitioners. The salary will be made from immentations and the approximation will be appointed to the Headship of the Department of Child Dental Heattle for five years in the council of the council o

Applications are invited for the above position in the Department of Education. The post is available from lat February 1983. Or as mutually agreed. The candidate appointed will attunder the direction of the Head of the Department of Education and will be required to undertake duties relating to extramiral tuttion in addition to internal teaching and research.

CHAIR IN THE AREA OF MECHANICAL

Applications are invited for this vacant Chair, candidates for which should have an established reputation in one of the following broad fields:



Applications are invited for the above post, becoming vacant on eptember, 1982 on the retirement of Professor F.M. Willis Applicants should be specialists in the area of.

should be specialists in the area of.

either: Franch Studies
or: Applied Language Studies, with reference to two
of French, Germen, Russian and Spanish

Modern Language is a large and flourishing area of the University and is
marked out for continued development. Further particulars, including
conditions of service and seilary details, may be obtained from
The Registand Services, University of Bradford, Wast Yorkshire, BD7 10P, Closing date for receipt
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LEEDS
THE UNIVERSITY OF NEW ZEALAND SCHOOL OF DENTISTRY Palmeraton North LECTURERIN

Salary within the range of NZ\$21,660 - \$25,684. Further details of the University, together with conditions of appointment, may bloobtained from the Association of Commonwealth Universities (Appts), 56 Ogrdon WCIH OPF, or from the Resistrar of the University with whom applications close on 22 October 1982, THE TIMES HIGHER EDUCATION SUPPLEMENT 17.9.82

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tising of fundamental statistics would be useful.

The appointed will be expected to tunch in the appointed will be expected to tunch in the dudrees, diploma and foundation courses in administrative with special employs an ethory and practice of technical to organizations. Organization theory and practice in relation to organizations. Organization theory, manually stated in the constant of the course of t

GLASGOW UNIVERSITY OF

STRATHCLYDE

Applications are invited for a Post Doctoral Research Followship in the Department of Mathematics to work with Drs D M Sloan and P G Barratt on a numerical investigation of continuous equations for thermal insubilities in nematic liquid crystals.

Applicants should be adverted in numerical injuries with an interest theoretical machinics or applied methomatics in experience in numerical constants.

Appointment funded by SERC is for two years commending I January 1983 or earlier if possibile on Range IA of the national selections staff with a to 67235 per annum, plactions and experience. USS benefit.

Universities continued

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Gratuity: appointment allowance: low-routal part-furnished accommodation; allowance in three year renewable contract.

Detailed applications (3 copies) including a curriculum vitue and mening 3 referees, should be saint to the Registrer. Deference of the Registrer of the Regist

MILTON KEYNES

FACULTY OF MATHEMATICS

A new Chair in Mathematics Education has been established in the Faculty of Mathematics of the Open University, for seven years in the first instance.

Salary will be within the normal UGC approved professorial range plus USS benefits.

Closing date for applica-tions: 29th October 1982.

MILTON KEYNES

CHAIR IN CURRICULUM STUDUES EDUCATIONAL STUDIES

The successful candidate will be responsible for the academic leadership of the Curriculum Studies Group both in the preparation of courses in the School of Education and in research. Salary will be within the normal UGC approved Professorial range vius USS benefits. Further particulars are available from the Becretery 4472/2). The Open University. Walton Hail. Mitton Keynes, MK7 6AA. or by disphone from Mitton Keynes 653710: there is 84 hour answering service on 653868.

Closing date for applica-tins: 29th October, 1982.

HONG KONG

LECTURESHIP IN CHINESE LANGUAGE

Annual salary (super-annuable) is on an 11 point scale: HK\$129,840 ~ 217,380, (£) = HK\$10.40 approx.)
Starting salary will do-pend on qualifications and experience.

At current rates, salar-ses tax will not exceed 15% of gross income. Housing batefits at a ren-tal of 74% of selery, children's education at-lowences, levs and medical benefits are provided. Further particulars and application forms may be obtained from the Association of Commonwealth Universities (Appts). 36 Gordon Square, London WCIH OPF, or from the Appointments of Gordon Cunit. Secretary's Office, University of Hong Kong. The closing date for applications is 30 November 1882.

READING UNIVERSITY OF

LECTURESHIP IN COMPUTER SCIENCE

Further particulars and application forms 12 copies, ure available from the Personnel Officer, University of Reading RG6 2AH (Quote Ref. No. A. 826) Closing date 11 October 1982.

JOHANNESBURG UNIVERSITY OF THE WITWATERSRAND DEPARTMENT OF

SENIOR LEGITURER (R16 557 ~ R24 045 p.n.) Applications are invited from sultably qualified persons, rengrillers of sea, thir, relour or sultonal origin, for appointment to the slove post. the sucressful applicant will be expected to per-ticipale fully in both touching and research arri-vities of the Department. MSc programmes by course work and disserts-tion are queunraged.

Interested persons should obtain the information between the information of the state of the south Africa University of the South Africa University of the South Africa University of TIE, Endough Welly 71E, Endough Descriptions of the Williams State of the South Africa Welly Welly Welly 10 to the Welly Well

MELROURNE MONASH UNIVERSITY DEPARTMENT OF GEOGRAPHY SHORT TERM LECTURER IN URBAN-ECONOMIC GEOGRAPHY

AUSTRALIA

2 year lectureship to touch a 2nd year level course in the unography of settlement and either a 3rd year course in urban and regional development or to participate in one of the current 3rd year regress within the general field of urban-reconsing geography. Salary: separal field of unbalancoine specifies of the property of the

The University wishes to initiate one or more European Studies courses within the Arts Faculty preferably in collaboration with other institutions, particularly in collaboration ones. As well as European ones, the successful and the conditate would be expected to foster such collaboration. For this interdisciplinary post, preference may be given to candidates qualified in one or note of: Comparative Literature, the Fine Arts, History of Ideas. Modern History. READING DIRECTOR OF THE COMPUTER CENTRE

Further particulars may be obtained from the Secretary. (446/3) The Open University. Waiton Hill. Milton Keynes MK 6AA. Telephone Milton Keynes (0908) 553710; there is a 24 hour answer-ing service on 653868. The post of Director of the University's Computer Control selection the defection of the University of the Computer Control selection of the Appointment are asked to write to the Registers (Room 214, Whiteknights House), The University, Whiteknights Resding ROS 2AH. Clusing date for applica-tions: 29th October 1882.

LONDON WESTFIELD COLLEGE LECTURESHIP IN HISTORY OF MEDIEVAL ART UNIVERSITY OF LECTURESHIP IN PUBLIC

Applications are invited for the above post, vacant on the permanent establishment from I junuary 1983. Applications are invited for a Lectureship in the Department of Public Luw, which teaches in the fisher of Constitutional Law, Administrative Law, Public International Law, European Law, Welfare Law, Planning Law, and Oit and Oos Law. The successful candidate will be responsible for the teaching of modisval art and architecture for History of Art Single & Combined Honours B.A. degrees, and for poatgraduate supervision within the medieval field: some teaching of architecture of and sculpture will be required; reasonable in medieval painting will be as within the range \$6373 - £8085 plus £1035 tondon Weighting Allowance. Applications [6 copies) should be sen by 11th October to the Personnel Officer. Westfield Colles, Kidderpore Avenus. London NW3 6377 (01.435 714 Ext. Splary Scale £6,375-£13,505 with point of entry dependent on qualifications and experience, Superannua-tion under U.S.S.

Fellows

READING UNIVERSITY OF CENTRE FOR APPLIED LANGUAGE STUDIES RESEARCH AND TRACKING FELLOWSHIP Applicants should have as M.A. in Applied Linushittes or similar qualifications and experience in EFL teaching. The Fellowship is offered for a pariod of two years from October 1982.

LONDON RESEARCH FELLOW IN INDUSTRIAL RELATIONS

Applications are laylor for the position of rehearth fullow to work in a
major raview of recent devolopanents in trade indicas
and fudurated relations
which is about to be
undertaken by the Policy
Studies Institute. The raview will include proposals for future public pullty
in the area. Applicants
whould have a mod knowladder at industrial relalimin, some relevant resource aspectance ovidence
and produce to the
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ladder

Applications by 8 October to Elleen Rela, Policy brudes institute, 1/2 Castle Lane, London Switch Color Colors of the Color Colors of the Colo

Adult Education

NOTTINGHAM EAST MIDLANDS MINISTRY TRAINING COURSE SENIOR TUTOR

Applications are invited from near and women sufficiently in adult Education or Pastoral Studies of Theorems pastoral in a senior, to be taken up before Suprember. 1685.

The successful candidates will work from a base within the Decart into a Adult Education University of Notifighan

Tall details of the opportunent the secretary. EMMTC. Hererment of Adult Education Block Buckers Tee Buldings. Cherry Tee Buldings. The Buldings. 1917 (2011) before 11st October, 1982.

Polytechnics

TEESSIDE POLYTECHNIC HEAD OF DEPARTMENT OF CIVIL & STRUCTURAL ENGINEERING AND BUILDING (Grade V)

Applications are invited for the above post from persons who might have a background in any of the areas of civit engineering. The department is responsible for the provision of courses all postgraduate, degree and diptoma, final professional and Higher National Certificate levels.

National Certificate levels.

Applicants should have good professional qualifications and experience in practice and must be chartered engineers, preferably at the level of Fellow. They should be able to demonstrate proven attlity in research, evidenced by published papers, and recent experience in the supervision of research degree candidates would be an advantage. Salary scale: Head of Department Grade V (\$14.679-\$16.305 per

Further particulars and application forms are obtainable from:
The Personnel Section, Teesside Polytechnic, Borough Road,
Middlesbrough, Cleveland TS1 3BA, Tel: 0842 218121, Ext. 4111.

This is a re-solvent sement. Previous applicants will be considered along with all others received.

DUNDEE COLLEGE OF TECHNOLOGY SENIOR

LECTURESHIP IN PHYSICS Applications are invited for this new post which has ansen in consequence of an expansion of the work of the department of physics. Candidates must have a good homours degree in physics and extensive experience of teaching at degree level.

Salary scale £11.700-£12.987 (Bar) = £14.748 with initial placing dependent upon approved previous experience. Financial assistance towards the cost of removal expenses may be payable.

Further particulars and application forms may be obtained from the Personnel Officer, Dundee College of Technology, Bell Street, Dundee, DDI 1HG, to whom completed application forms should be returned by 1 October 1982.

Please quote the classification you require when sending advertisement copy to the Times **Higher Education Supplement** Classified **Advertisement** Department.

O / UNIVERSITY OF SOUTHAMPTON **ENGINEERING** MATERIALS

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POLYTECHNIC OF THE SOUTH BANK Borough Road, London SE1 0AA

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(Ref: HE11)

FACULTY OF EDUCATION, HUMAN AND SOCIAL STUDIES **DEPARTMENT OF HOME ECONOMICS**

AND CONSUMER STUDIES **HEAD OF DEPARTMENT** GRADE IV

(Re-advertisement)

Applications are invited for this post which is to be filled as soon as

The Department is primarily concorned with a full-time BEd Home Economics for Secondary Teachers and a new BSc Food Textiles and Consumor Studies course which is commencing in September 1992. The person appointed will be expected to develop the Department's contribution in both these ereas, and give academic leadership in lostoring the development of staff, and both the quality and range of work

Applications are therefore invited within a range of academic expertise Applications are therefore invited within a range or academic expertise but applicants will need to have a proven record in academic leadership, course development and research. While experience of Home Economics in the context of teacher education and of the developing field of Consumer Studies are assential, it is hoped that candidates will record that candidates will be developed to the context of the second and to the second to offer an opportunity to rievelop the social and industrial aspects of Consumer Studies within the Department.

Salary will be in the range; £13,491-£15,117 p.a. plus £834 p.a.

London Allowance.
Further particulars of the post and application forms are svaliable from the Staffing Office. Tel: 01-928 8989, Ext. 2355. Completed application forms to be returned no later than 4th

POLYTECHNIC OF THE SOUTH BANK Borough Road, London SE1 0AA

FACULTY OF EDUCATION, HUMAN AND SOCIAL STUDIES

DEPARTMENT OF PROFESSIONAL **EDUCATION STUDIES**

HEAD OF DEPARTMENT GRADE IV (Ref: PES 1)

Applications are invited for this post which is to be filled as soon as

The person appointed will be expected to develop the Department's strength in the Primary Education field. This will involve leading and encouraging staff to develop the curriculum offer of the degree in areas such as Multi-ethnic studies, Community studies, English as a second language, and Primpry School Mathematics. Experience and expertise in one or more of these fields will be an advantage but not essential. Applicants will be expected to have a proven record of academic leadership, course development, and experience of current developments in the field.

Salary will be in the range: £13,491 - £15,117 p.a. plus £834 p.a. London Allowance.

Further particulars of the post and application forms are available from the Staffing Office. Tel: 01-928 8989, ext. 2355. Completed application forms to be returned to arrive no later than

BRISTOL POLYTECHNIC

COMPUTER STUDIES & MATHEMATICS DEPARTMENT

LECTURER II/SENIOR LECTURER IN INFORMATION BYSTEMS ANALYSIS Ref. No. L/57

Applications are invited for the post of Lecturer in Information Systems Analysis, duties to commence on I lanuary 1983 or as soon as possible thereafter. Applicants should have a demonstration Requirements Analysis within the iranework

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would be an advantage. Salary scale: LII 16.855-E10.173 (bar) - £11.022 per annum. SL £10,173—£11,964 (bar) — £12,816 per annum.

The appointment will be under on the appropriate scale according to relovant previous experience/service (Prograssion from the Lil scale to the SL scale is in accordance with the provisions of the Burnhum Further Education its.

Applicants should have a mode honours digree and preferably a higher degree. The successful randidate will be expected to perfeipate in the research-consultancy work of the Department.

For further details and a application form, to be returned by 1st October 1982, please contact the Porsonnel Office, Bristol Polytechnic, Coldharbour Lane, Frenches, Bristol or 109 Bristol 650251, Ext. 575. Please quote Reference Number L/57 in all com-munications. H3

BRISTOL POLYTECHNIC

ENGINEERING DEPARTMENT PRINCIPAL LECTURERS

(a) DESIGN Ref. No. 152/ (b) COMPUTING Ref. No. L52/65. (c) SOLID MECHANICS Ref. No. L52/66.

These are senior posts responsible for a major sertion in the Employering Department. Applicants slicuid be well qualified, preferably with a good Honours Degree and relevant industrial or research experience. Duties to commone as woon an possible. Salery scale 21:031 - £13.280 (bar) - £13.018 per samum.

Further details and ap-plication forms, to be re-turned by 30th September, please contact: The Per-sonnel Office: The Per-tonnel Office: Cuicharbour Polytacimic Cuicharbour Lans, Francius, Bristol or Fing Bristol 650261 ex 113

THE SOUTH BANK Borough Road, London, SE1 0AA Educational Technologist (Not. ETS 1)

Educational Technologist required to lorm part of the production term of the Polytechnic's Educational Technology per-

Applicants should be denduates with experience or nest senduates with experience to an interest of the send of the Salary will be in the range 111.007 - 113.650 per annum inclusive of Loudon Allowance. Application form and further particulars from the Stating Office, Telephone: 01-928 8989 Extension 2355.

answering service (0632 323126) or send a stamped utidressed on the Corner of the Corn Completed application forms to be returned to period to period to deter than 4 October 1982.

DUNDEE COLLEGE OF TECHNOLOGY Applications are invited for the following posts in the Department of Mathematics & Computer Studies.

SENIOR LECTURER IN STATISTICS

Applicants should have high academic qualifications together with extensive expetience and a proven record in graduate tevel teaching, research and/or industry or commerce. A specialist interest in forecasting, econometrics, or stochastic medelling will be an advantage. The person appointed will be required to teach to honours degree level and take an active role in the development of statistics within the department.

LECTURER IN MATHEMATICS

Applicants should be well qualified in mathematics and preforably have a record of research in the applications of mathematics. The successful applicant will be required to leach mathematics to honours degree level and will contribute to the department's research effort in applicable or applied mathematics.

LECTURER IN COMPUTING (DATA PROCESSING)

Applicants should be honours graduates with practical experience of data processing in industry, commerce or government sorvice. Teaching experience will be an advantage. The person appointed will be required to teach to degree and diploma level and will have an active interest in one or more of the following areas: business-applications of microcomputers, systems design, data-base organisation.

Senior Lecturor: £11,000-£12,987 (har)-£14,748 with initial placing dependent upon approved previous experience. Lecturer: £7,956-£11,700 (bar)-£12,561 with initial placing dependent upon approved previous experience. Financial asisstance towards the cost of removal expenses may be

Further perticulars and application forms may be obtained from the Personnel Officer, Dundee College of Technology, Bell Street, Dundee DD1 1HG, with whom applications should be lodged not later than 1 October, 1882.

SHEFFIELD CITY POLYTECHNIC **DEPARTMENT OF COMPUTER STUDIES**

LECTURER II/SENIOR LECTURER (3 POSTS)

The persons appointed will teach within their specialist subject and on the Department's undergraduate and post-graduate courses in Computer Studies. Some general computing teaching to courses in other disciplines will also be required. One of the posts will involve responsibility for data processing teaching to courses in Business Studies.

Applicants should ideally possess good scademic qualifications in computer related fields and be active in research and/or have recent relevant industrial experience. Applicants should state what specialist area of Computer Studies is being othered. Salary Scale: Lecturer !! - £6,855-£11,022 pe Senior Lecturer - £10,173-£11,984 (bar) - £12,916 pa Successful candidates will be appointed to the appropriate salary scale eccording to their experience and qualifications.

DEPARTMENT OF ECONOMICS AND BUSINESS STUDIES LECTURER II IN ECONOMICS

To join an established team of economists. Applicants should be able to contribute to courses in basic economics and to offer or develop a specialism appropriate to the

Salary Scale: £6,655-£11,022 pa. Under current salary requistions Under current salary requisitions and subject to satisfactory performance, the successful candidate can normally expect incremental progression to the Senior Lecturer Scale of which the present maximum is £12,816 ps.

Application forms and further details are available from the Personnel Officer, (Dept THES), Shorfield City Polytechnic, Halfords House, Fitzalan Square, Shotfield, 91 288 or by phoning 0742 20911, Ext. 387. Competed forms to be returned by 1st October.

Shelfield City Polytechnic is an Equal Opportunities Employer



Applications are invited for the post of

LECTURER II/SENIOR LECTURER IN MODERN LANGUAGES

The preferred combination is German and Spaniah, but applications are invited from those able to offer any two languages from German/Spaniah/French.

Duties to commence as soon as possible, and not later than 1st January 1983.

Application forms and further particulars may be obtained from the Staffing Clerk, The Polytechnic, Wolverhampton WV1 1SB. Tel: 0802-710654—Ansafone after office hours—to whom completed forms should be returned within 10 days of the date of this advertisement.

NEWCASTLE UPON TYNE POLYTECHNIC

ACADEMIC ADMINISTRATION DEPARTMENT

SENIOR ASSISTANT (EXAMINATIONS AND REGISTRY) (APS)

The successful candidates will take charge of the day to day operation of the Examinations and Resistry Section of its Department. Caudidates should prefurably have degree level qualifications and responsible level umployment experience.

NJC Salary und Condi-tions: APS £7571 - £7875 per annum For further details and ap-plication form returnable by 1 October 1982, please call our 24 hour telephone answering service (n432 23124) or service THE SOUTH BANNK Department of Home Economics Lecturer II/Senior Lecturer in Testiles (Ref: HE 10) (rr-advertisament)

Applications are invited from graduates who can specialize in the design, fabric and garment construction aspecialized in the technique of textiles, as well as a fat the technique of textiles, and technique of textiles, and technique of textiles and technique commercial experience is executed in a teaching qualification or experience desirable.

Courses taught include B.Ed. Home Economics and the new B.St. Food, textilus and Consumer Stu-dies. Selery will be in the sender: Senior Lecturer - £10,173 - £12,816: Lecturer 11 - £855 - £11,082; plus £854 p.s. London Allowance,

Purther particulars and application form from the Staffing Office (Ta): 01-928 8089. Ext. 2355). Closing date for receipt of applications will be 5th Outober, 1982.

Faculty of Engineering
Department of Electrical, Electronic & Control Engineering.

Reader/Principal Lecturer in Microprocessor **Engineering**

£11,931 - £13,290 Bar £15,018 p.a.

Due to major Departmental developments in the industrial Due to major Departmental George patients in the industrial applications of interrophocossor systems this post has been creat to provide for the leadership and development of this important

area or work.

Applications are therefore invited from highly qualified candidates who have a proven record of successful industrial collaboration, attraction of external funding, personal research, research supervision and a sound in depth knowledge of the design of microprocessor systems for industrial applications. The successful applicant will be expected to take a major interest in the Department's S.E.R.C /D.o.I. funded Teaching Company

programmes.
An application form and further particulars may be obtained from
the Personnel Officer, Sunderland Polytechnic, Langham Tower,
Ryhope Road, Sunderland SR2 7EE, or tel. Sunderland 76231
ext 11. Closing date 2nd October, 1982.

SUNDERLAND POLYTECHNIC

NORTH STAFFORDSHIRE

FACULTY OF COMPUTING, HUMANITIES AND EDUCATION DEPARTMENT OF

Sulary Scala: Senior Lec-turor £10,175-£11.964 (Bar) - £12,816 p.a. Lecturer Grade II £6,855-£11,022 p.a.

Application forms and further details muy be obtained from The Personnel Officer. North Startordshire. Polytechne. College Road, Stoke-on-Trent, ST4 45531. St. 297. Closing Date 11.10.1982.

POLYTECHNIC Fuculty of Engineering Department of Civit

PRINCIPAL LECTURER
IN STRUCTURAL
MECHANICS Salary scale: PL £11,931 -£13,290 Bar £15,018 per annum

Applications are invited for the above post from Chartered Engineers win a good honours degree to civil Engineering and preferably a higher degree. Tacching and respected with a considered desirable but not essential and candidates with a good industrial background will be considered.

The successful applicant will be required to teach at undergraduate mad post-successful and promote reasonach. Consultant protection of the control of the c The post is to he taken up as soon as possible.

An application form and further particulars may be obtained from the Personnel Officer. Sunderland Polytechnic, Langham Tower, Ityhape Road, bunderland, SR2 7EE, or telephone Sunderland 76231 Est 11 Closing date | October 1982 HS

Colleges of Higher Education

SCHOOL OF VISUAL COMMUNICATION DESIGN Applications are invited for the post of:

HEAD OF SCHOOL

Grade V: £14,679-£16,305

Creative management linked to academic leadership are Jualities being sought by a multi-disciplinary team of 2 and 3 dimensional designers. Applicants with a grounding in a design discipline should write to:

The Paraonnel Officer Hull College of Higher Education Inglemire Avenue Hull HU6 7LU

Tel: (0482) 446506 Closing date for receipt of completed application forms - 30th Full and fair consideration will be given to disabled applicants.

Hull College of ර්ථ Higher Education

DORSET LEA

Dorset Institute of Higher Education Appointment of Director

Applications are invited from graduates with substantial experience in Higher Education and who hold or have held posts carrying senior management responsibility within a college. Appointment to commence from April 1983. The salary will be at a fixed point within the range for a Group 8 college (£21,972-£22,929).

Application forms and further particulars may be obtained from the County Education Officer, County Hall, Dorchester, Dorset DT1 1XJ. Telephone enquiries to Mr. J. E. Cooper, Principal Assistant Education Officer at Dorchester 63131 Extension 4381. Closing date for receipt of applications will be 24th September,

Colleges of Higher Education continued

DEPARTMENT OF BUSINESS AND PROFESSIONAL STUDIES LII/SL in BUSINESS FINANCE and ACCOUNTING teach on Dogree, Diploma and Professional courses

LII/SL In BUSINESS COMMUNICATION

o teach Businoss Communication and to organise cross modular assignment DEPARTMENT OF CATERING HOTEL ADMINISTRATION AND APPLIED SCIENCES LWSL in FOOD & BEVERAGE MANAGEMENT o leach on Higher Diploma and Degree courses

DEPARTMENT OF HUMANITIES

LU/SL in MEDIA STUDIES/INFORMATION OFFICER This combined post for a porson with experience in either journalism, broadcesting or public relations includes lecturing at Honoura Degros level and responsibility for the institute's information and publicity service.

> DEPARTMENT OF MANAGEMENT AND TOURISM LUI/SL in INDUSTRIAL/EMPLOYEE RELATIONS

to leach on a variety of management. TUC and Higher Diploma courses and to contribute to course development and research. confidule to course development and account of the condition of the course of the cour LII: £6,855-£11,022 BL: £10,173-£11,954 (bar)-£12,816

Details and application forms, which must be returned by 1st October, 1982, obtainable on receipt of SAE from the Director's Becretary, Room 1HB, Corset Institute of Higher Education, Walltadown Road, Poole, Oorset 8H12 SBB.



EDGE HIL! COLLEGE OF HIGHER EDUCATION

St Helens Road, Ormskirk, Lancashire L39 4QP An Associate College of the University of Lancaster

DEPARTMENT OF EDUCATION **LECTURER II OR SENIOR LECTURER** IN EDUCATION

Applications are invited from graduate teachers with substantial experience in Primary Schools for this post which is tenable from 1st January, 1983, or as soon as possible thereafter.

Salary Scales:

£6,855 × 10 increments to £11,022 £10,173 × 6 increments to £12,816

Purther particulars of the post may be obtained from the Personal Assistant to the Director. Completed application forms should be returned to the Director by 5th October, 1982.

DIRECTOR

CHELMER INSTITUTE

OF HIGHER EDUCATION Applications are invited for this post which becomes vacant on 1st September 1983 on the retirement of the present Director. The Institute is placed in Group 9 and the salary is currently

£23,808 pa. Closing date: 5th October 1982. Application forms and details from the County Education Officer (Ref: F), PO Box 47, Chelmsford CM1 1LD.



COUNTY COUNCIL

DEPARTMENT

This is a new post in the Higher and Further Education branch of the Department designed par-ticularly to assist in meet-

ticularly to casist in mosting the increasing demands
arising from devolopments
in 16-18 education including the New Training initiative. The posthoider
will have apperfix responalbilities in connection
with certain of the further
education colleges will
assist in the co-ordination
of the provision for the
16-19 age group and will
help in the administration
of higher and further
education generally.

Candidates about here

Candidates should have good tauching experience preferably including experience in further oducation, and administrative experience with a Local Education Authority aclients of assistence is available with re-location expenses.

Commencing salary will be within 1 the Grade POICS. To 275 to 15,517 according to qualifications and experience. (Pay award pending.) Application forms (re-turnable by October 1) and further details (rom County Education Officer (MD). County Fig. (Tec. Chester 53131 Ext. 4171).

Personal

immediate Advances £100 to £20,000. Written terms on request. Regional Trusk Ltd.. 51 Dover Street, Picosdilly. London WA 481 Phone 01. 481 2934 78 499 5416. L000

Administration

WARWICK UNIVERSITY OF ADMINISTRATIVE ASSISTANT

Applications are invited for a post of Administrative Assistant in the Registry. Candidates should hold a good honours despose and should have held some further experience in postgratuate study. An ability to limite study. An ability to limite study as a material would be an advantage. Shinty on the Administrative Grade 1 A scale:

ES.50-211.103 p.m.

Further details from the Secretary and Registrar. University of Warwick, Coventry CV4 7AL to whom applications inclinding the names of thre referens should be sont by jet October, 1982, Please quote Ref. No: 5/1/82/L.

The second secon I Calliner London . Education Authority

DIRECTOR OF LEARNING RESOURCES BRANCH

Salary £19,143 to £20,751 (under review) PLUS £1,284 pa London Weighting Allowance

PLUS E1,284 pa London Weightling Allowance

This challenging and domanding post arises upon the retirement of Mr. Lestie F. Ryder. The Director is responsible for the Branch which provides information and advice on organising and using a wide range of leasning resources in educational establishments: its work includes the development and production of learning materiels and curriculum support, and provides in-service training, central support services and a range of professional activities. The Branch is multi-disciplinary and its stall includes leachers, editors, modis specialists, librariens, designore, orginoers and other professionals; the ILEA's Education Library and Loan Services are established in the Branch, and the Director will have responsibilities in computing applications of the inner London Educational Computing Centre.

The selected applicant will have successful and practical sentor experience related to this work including teaching experience and with be likely to have led a large group of specialists across disciplines. He/she will need to possess entialization and promitted and provides and provides are related to this work including teaching experience and with be likely to have led a large group of specialists across disciplines. He/she will need to possess entialization and provides are related to the work including teaching experience and with so likely to have led a large group of specialists across disciplines. He/she with need to possess of an inner city education service, to show their and creativity and to inswer he public or private sector.

Application forms for this post (together with a job description) may be obtained from the Education Officer (Ref: EO/Estab 18) floorm 355, the County Hall, London SE1 7PB.

Completed forms should be returned no later than 4 October 1982.

Further Information on this post may be obtained by contacting Mrs M. I. Stockley on 01-833 3387.

on 01-633 3367.
ILEA IS AN EQUAL OPPORTUNITIES EMPLOYER

Lothian Regional Council NAPIER COLLEGE OF **COMMERCE AND TECHNOLOGY**

ASSISTANT PRINCIPAL/DEAN FACULTY OF PROFESSIONAL STUDIES

Salary: Grade 17 £18,117

The Faculty of Professional Studies includes the Departments of Accounting, Banking and Insurance, Business Studies, Industrial and Social Studies, Law, Management and Office Administration, and is concerned with a full range of courses at posigraduate, degree and diploma level.

The duties of Assistant Principal are College wide and will initially involve responsibilities concerned with curriculum and

Applicants must possess appropriate qualifications experience for this post. Application forms and further particulars from: The Administrative Officer (Personnel), Napler College of Commerce and Technology, Colinton Road, Edinburgh

Research and Studentships

CULHAM COLLEGE INSTITUTE in collaboration with THE ANGLICAN COLLEGES OF HIGHER EDUCATION

wishes to appoint a

RESEARCH OFFICER To develop a project enquiring into the future role of the

The person appointed must have a good understanding of British HE, be able to organise collaborative research and have had previous experience of handling both subjective and objective

The Research Officer will work in close association with staff from the colleges; with the Director of the Institute and also with Mr Brian Kay, Senior Research Fellow on the project and formerly HM Chief Inspector - Teacher Training. The appointment is likely to be made within the top half of Scale 1A (£6,070-£10,575) although a very experienced candidate could be placed on Scale 2 (£10,160-£13,735) – both scales under review. USS or appropriate equivalent benefits available. The post is for 2 years. Closing date for applications Monday 4th October.

Further particulars and application forms from: The Revd. Dr. John Gay Culham College Institute, HE 60 East Saint Helen Street Abingdon, Oxon, OX14 5EB.

BRADFORD

UNIVERSITY OF

and make experimental measurements. Sulary within the scale £3.550 - £6.375 p.a. Superannuples.

Purther particulars and an application form are obtainable from the Personnel Secretary, Post Rulerence: RA/CE/SERC/2/TH University of Bradford, West Yorkshire, BD7 IDP.

NEWCASTLE UPON TYNE UNIVERSITY OF

MARINE TECHNOLOGY MARINE TECHNOLOGY

Applications are invited from suitably qualified uraduates for a Research Associateship on the Marine Technology Research Programme at Newcastle. The vacuacy is a temporary one for endymer, to work on a inner billty study investigating real time stream annivers of post is based in the Deartman of Electrical and Electronic Engineering. School of Civil & Structural Engineering RESEARCH ASSISTANT IN ENVIRONMENTAL NOISE PROPAGATION (Fixed-term appointment - 3 years) Applications are invited from candidates with a use of the candidates with a use of the candidates with a property of the candidates of the candidate of the candidates of the candidates comprising of different types of cover and make experimental

Further particulars of the programme and the programme and the project may be evidenced from the project may be evidenced from the University. A consistent of the property of the property of the property to property to property to property to property to provide the property of the property to property to provide the property to provide the property to property to

DEPARTMENT OF ELECTRICAL AND **ELECTRONIC ENGINEERING**

RESEARCH ASSISTANT/ DEMONSTRATOR

Good honours graduates desirous of working for a higher degree are invited to apply for a research post in

High Sensitivity Electronic Instrumentation Systems (Ref E93)

Selary: £5,355-£5,580-£5,808-£6,039 Further details and form of application from The Staff Officer, Trent Polytochnic, Burton Street, Nottingham NG1 48U. Applications to be returned as soon as possible.

TRENT POLYTECHNIC #NOTTINGHAM#

university college of

POLYTECHNIC

PLYMOUTH BUSINESS SCHOOL RESEARCH ASSISTANTSHIP

Fishing Industry Project

This is a re-advertisement. Pre-

vious applicants need no re-Applications are invited from candidates with a good honours degree in Business Studies, Economics, Fisheries, Management or another affiliated discipline. Research Assistants are expected to register for a higher degree with the CNAA. Appointnents are for a pariod of one year in the first Instance renewable for

a second and third year subject to satisfactory progress.

Salary: £5,355-£6,039 Application forms to be returned by Friday, 1st October, 1982, can be obtained with further particu-lars from the Personnel Officer,

OXON

THE MANAGEMENT

RESEARCH ASSISTANT INFORMATION TECHNOLOGY FOR MANAGEMENT

The aucrossful Landidate will be expected to assist in ranearch concerned with the use of information technology in husiness, to help develop new multi-media tosuling resources in this area, and to perform some teaching duties in the Concerns area of the concerns to the concerns the concerns to the co

Salary in the range £5.000-£6.500. 2 year contract. Starting date

COURSE CO-ORDINATUR

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Dattes will involve
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Learning courses being
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aspects of rourse production including videa, nudio, text and assessment
artivities. Relevant qualifications in management
or the social schures are
required. Past successful
experience of team incluexperience of team in the
consultage. There will be
an apportunity to resister
for a higher degree.

2 year fixed term. Start-ing date early October 1982. Salary in the range 25.000-26.200.

Further details and application forms from the civilization forms from the control of the contro

Plymouth Polytechnic, Drake Circus Plymouth PL4 8AA.

JOHANNESBURG

Applications from suitably qualified persons are invited reperfuless of ess, race, colour or national origin, for suppointment to the discrepant.

swansea Digital Audio Research

Applications are invited for two acandes of ESEARCH ASSISTANT RESEARCH ASSISTANT in the Department of Electrical and Electronic Engineering. Canadates should have either a liter or upper second class honours degree in electrical and olectronic engineering and or industrial experience. The work will be in the area of analogue-to-digital and digratio-handlogue-to-digital and digratio-handlogue-to-digital and digratio-handlogue-to-digital and signal processing and measurement techniques required for the production of a vary high accuracy monoithic convenior will be investigated. Suitable candidates may be able to register for a higher degree.

candidates may be able to rogistor for a higher degree.
The appointments, which will be from the sonest date that can be arranged, will be to conset date that can be arranged, will be of cone year a newable for a huther two years, and will be at a commercing salary of £5,550 per arrum plus USS:
USDPS be notified.
Informal enquirtes may be made to Dr. R. A. Bother, but application forms (5 copies) and turther particulars must be obtained from the Personnest Office, University College of Swanses, Eingliston Park, Swansos, to which of the they should be returned by October 1 1882.

NORTH EAST LONDON

POLYTECHNIC DEPARTMENT OF GENERAL SURVEYING AND CONSTRUCTION IUNCAN HOUSE. HIGH STREET, LUNDON ELS

RESEARCH ASSISTANT A graduate in planning, land administration, oducation, geography, computer atudies or a related discipling in required to work under supervision on a project entitled "Caso Study Packages for Undergraduate and Mid-Carent Training". Duties will include collection of date for, suid design of the for, suid design of the desi

The post is funded by RICS and will be for 9 mentis in the first Instalance, with some possibility of subsequent extension and research degree registration. Some research teaching or professional experience would be an advantage, as would some experience with computers.

Solary will be on the scale \$4.680 - £8.335 per annum this appropriate London Allowance. For further details and application forms. Contact the Personnel Offica. North East London Polytecinic, Asta House. 136-164. High Road. Chairwell Heath. Romford, Echaracter and Solary Chairment Cha

will be made.

Internated persons should obtain the information when the information will be should obtain the information will be should be shoul

UNIVERSITY OF THE ARFICAN STUDIES

Applications from sult-suly qualified persons in why of the following areas will be wolcome: Sucial Anthropology. Industrial Sociology. Sociology. Women's Studies. Econo-mics. Political Economy of Political Control of Sociology.

UNIVERSITY OF NATAL

DEPARTMENT OF

PSYCHOLOGY

SENIOR

LECTURER

Applicants should have a higher degree in psychology, and substantial research and teaching experience. Psychologists within any sub-field of the discipline may apply.

R16 557-R24 045 per annum

The commencing salary notch will be dependent on the qualifications and/or experience of the successful applicant. In addition, a service bonus of 93% of one month's safary is payable subject to Treasury regulations.

Application forms, further particulars of the post and information on pension, medical aid, group insurance, staff bursary, housing loan and subsidy schemes, long leave conditions and travelling expenses on first appointment are obtainable from the Secretary, South African Universities Office, Chichester House, 278 High Holborn, London WC1V 7HE or the Registrar, University et Matal, King George V Avanua, Durban, 4001, South Africa, with whom applications, on the prescribed form, must be located in the 1990 october, 1992 queling the reference number

SOUTH AFRICA

UIODES UNIVERSITY GRAHAMSTOWN

Salary in the range:

HEAD OF DEPARTMENT OF TECHNOLOGY (GRADE V)

Required from 1st January, 1983 The Dopartment is sureary, roce

The Dopartment provides a wide range of traditional full and partition courses in Mechanical and Electrical Engineering at Technician and Craft level, to sorve industry and young people in the area. The department also contributes to the growing Youth Training programme. The Academia Board is currently reviewing the departmental structure.

The Governing Body is seeking to appoint a graduate who has held responsible teaching and industrial posts involving expertise in the new technology of micro-processor applications and who has a flexible approach to college management.

Salary Scale: Grade V Head of Department Min. £14,679 Max. £16,305 plus £231 London Weighling.

Application form and further particulars may be obtained from the Principal, to whom completed forms should be returned within fourteen days of the appearance of this advertisement.



Research and

LIVERPOOL CITY OF continued

PEPARATION ADVISER FOR FURTUER EDUCATION

(501) LRUINT HEAD TEACHER GROUP 10 --£15,249-£16,4451

Home moving expenses up to £1.250 psyable and temperary longing allow-

EN

A.

ABERDEEN

PERAKTMENT OF RESEARCH ASSISTANT

Applications are instead from unadoutes in Euritainerius. Materials, Physics or Chemistry for the bost of Research Assistant H scale to work with a group entering the first of the material in the electrodepoint of the material interest in the properties of this instead of the material interest in the properties of this instead of the material interest in the properties of the material principles of the material from the properties of the scale for 16 months made in the first of the material on the scale for 18 months when the first of the first of the material on the scale for 18 months for 18 mon

aspects of materials science are subject of research. Work is also being carried out on the practical realization of these transducers.

 to contribute to the research-program to participate in processes of management, executive and policy matters concerned with education, research and personnel

It is expected that the candidate is willing to magnetic transducers and is also capable of ntroducing new research projects of the material science of transducers for example IC-compatible transducers.

The candidate should be able to provide the The candidate should be able to provide the necessary inspiration and leadership in this multi-disciplinary group in both educational and research duties. Good leaching ability is required.

The state of the s

Information Enquiries should be made and information obtained from the Chairman of the Appointment Committee, Professor D. Bosman, tel. 053-893508.

Applicants for this position as well asthose who wish to direct the attention of the Committee to suitable candidates are requested to apply to or inform the Director of the Department of Electrical Engineering, Mr. A.G.N.M. Ploegmakers, P.O. Box 217, 7500 AE Enschede, The Netherlands.

DURBAN, SOUTH AFRICA Applications are invited from suitably qualified persons, regardless of sex, religion, rece, colour or national origin for appointment to the post of

THE LADY DAVIS FELLOWSHIP TRUST P.O. Box 1255 Jerusalem 91904, Israel

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Eligibility: Lady Davis Fellows are selected on the basis of demonstrated excellence in their studies, promise of distinction in their chosen fields of specialisation and qualities of mind, intellect and character.

Application information: Graduale candidates may apply during their senior undergraduate year or after they have undertaken study in a graduate school. Post-doctoral candidates may apply not later than 3 years after completion of their

The Fellowships are tenable for one year and may be renewed for a second year. Grant is intended to defray the cost of the Fellow's travel and tuition fees and to meet

VISITING PROFESSORSHIPS are intended for candidates with the rank of Full or Associate Professor at their own institution. They are tenable from one trimester (or

DEADLINE: Completed forms in all categories must reach Jerusalem not later that

Candidates, including Israelis abroad, may obtain application forms at the above address, after they indicate the category of Fellowship for which they qualify.

UNIVERSITY OF JERUSALEM

rusalem, Israel The Hebrew University o

POST-DOCTORAL FELLOWSHIPS

Candidates may apply at an early stage of their professional career (not later than 3 years after completior of their doctoral dissertation)

Completed application forms must be returned by December 1, 1982.

The department offers:
A comprehensive range of
modern instrumentation in
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Precision Engineering and
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The opportunity to undertake apecialized consulting work for up to the aquivalent of one day per week.

Intending applicants applicants applicants about obtain the information relating to this post from the Secretary Successfrom the Secretary Successfrom the Secretary Successfrom the Secretary Successfrom Universities and Successfrom the Chickester House 278 High Holborn, London 1976, Successfrom the Director: Person of From the Director: Person of the Witwatersrand, I Jen Smuts Avenue, Johannesburg 2 Avenue, Johannesburg 2 Avenue, Johannesburg 1976, Successfrom Should be lodged not later than 15 November 1982,

THE HEBREW

for the 1983-84 academic year in the Humanilles, Social Sciences, Natural Sciences, Agriculture and Medicine.

P.O. Box 1255 Jerusalem 91904, Israel.

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ADDITIONAL CHAIR IN SURVEYING (R23 109 ~ R30 255 p.s.) (E1=E1,97 R0Prox.)

Applications are invited from suitably qualified paralles, requireless of the race, colour or national origin for appointment to the above post.

Applicants shulld have appropriate qualifications in the headenic and project of the headenic and hydrographical entire and hydrographic surveying, remote sensing or photogrammetry. They should also have the headening and research of the main branches of surveying.

and in Photogrammetry is available which, tosafter with direct access through only own terminal to the old of the University of the Univer

A standard salary of up to R30 253 for the pro-lessorial post. In addition a "13th Chaque" is paid.

THE TIMES HIGHER EDUCATION SUPPLEMENT 17.9.82

Overseas continued



Australian Institute Multicultural Affairs

Principal Research Fellow A\$37,071 p.a.

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Research Fellows

Qualifications in appropriate social sciences, preferably at post-graduate level treating the milital instance of Australian society.

А\$20,963-А\$27,539 р.н.

Senior Multicultural Affairs Officers A\$25,770-A\$31,510 p.a.

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Demonstrated knowledge of the multicultural nature of Austrulian society, duding community and ethnic organizations, some journalistic and maintrative ability highly learnote. Terms and Condutions of Employment are breadly similar to those applying at Australian Public Service. Applications from men and women within or autistic Public Service are welcome. Thu turm of appointment wall be negotiated.

UNIVERSITY OF CAPE TOWN

Sonnenberg Senior **Research Officer** In Marine Geoscience

The successful candidate will have a Ph D in some branch of Marine Geoscience, preferably in sedimentology, sedimentary geochemistry, geophysics or micropalaeontology, and have the ability to initiate research programmes that involve active sea time and the supervision of posigraduate studies. The salary scole is R16 557 x 930—R24 045 per annum and the University afters attractive pension, housing and medical aid benefits.

The closing date for applications is 30 November 1882. Further details may be obtained from Professor R Dingle,
.Sonnenberg Professor of Marine Geosaliance, University of Cape Town, Private Bag, Rondebosch, 7700, to whom applications (including the names of three referees) should also be addressed.

The University's policy is not to discriminate on the grounds of sex, race or religion. Further information on the implementation of this policy is obtainable on request.

ISRAEL COMPUTER SCIENCE

Birzoit University, an independent Arab institution in the laraeli occupied West Bank, is in the process of establishing a Computer Center to handle the administrative, instructional and research needs for an ultimate threat enrolment of fivalifications and direct the University seeks a computer Scientist Contessive and direct the training and initiate the training and initiate the training and initiate the appointment is for two years, Applicantes appointment of the years and the computer accentes appointment of the years and process and the computer accentes appointment is professive and processive and the computer accentes appointment responsibilities, professive appointment of the years appointed and the computer accentes a professive and accedent setting. Applications are to include C.Y. tettors of recommendation, certificate(s) of employment, selery expecta-

Accomadation To Let

SELF CONTAINED. London maisonette available to academic couple or similar or abbatical September 1982 -June 1983. 2 bed. 1 study kitrhen/Diner, reception. kitrhen/Diner, reception. bath/w.c. 2 mins Highbury Islingon tube. To H3.

UNIVERSITY OF NATAL DEPARTMENT OF PSYCHOLOGY DURBAN, SOUTH

Applications are invited from sullably qualified persons, regardless of sex, religion, race, colour or national origin for appointment to the post of

AFRICA

SENIOR LECTURER

policants should have a higher degree in psychology, and sub-stantial research and teaching experience. Psychologists within any sub-field of the discipline may

R16 557-R24 045 per annum The commencing salary notch will be dependent on the qualifications and/or experience of the successful applicant. In addition, a service bonus of 93% of one month's salary is payable subject

Application forms, turther par-ticulars of the post and information on pension, medical aid, group insurance, staff bursary, housing loan and sub-sidy schemes, long leave conditions and travelling ex-penses on first appointment are penses on first appointment are obtainable from the Secretary, South African Universities Office, Chichester House, 278 Unice, Chichester House, 276 High Holborn, London WC1V 7HE or the Registrer, University of Natal, King George V Avenue, Durban, 4001, South Africa, with whom applications, on the prescribed form, must be lodged not later than 29 October, 1982 quoting the reference number D85/82.

Librarians

BATII UNIVERSITY OF TECHNICAL PROCESSES LIBRARIAN

Salary in the range £6,375 - £11, (05.

Closing date for applica-tions 8th October 1982, 1(14

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Adult Vacancies continued

NORTHERN COLLEGE

(Wentworth Castle, Nr. Barnsley) PRINCIPAL

Applications are invited for the post of Principal of the Northern College, on the retirement of the first Principal, Michael Barratt Brown, on 30th August, 1983. he College is one of the Residential Colleges of Adult Education recognised by the Department of Education and Science and founded by the four South Yorkshire Education Authorities. The College has places for 65 students on two year courses and 40 on short courses in the fields of Trade Union and Industrial Studies, Social and Community Studies and Library Studies. and Community Studies and Liberal and Gateway

Applicants should have teaching and administrative experience at an appropriate level and a broad knowledge of adult, trade union and community education. Salary at the lower end of the University Professorial range (£15,730-£17,460), USS arrangements

Further details can be obtained from the Company Secretary, Northern College of Residential Adult Education Lid, c/o Department of Administration and Law, Town Hall, Barnsley, to whom applications should be addressed. Closing date 11th October, 1982.

Twente University of Technology



A vacancy exists in the DEPARTMENTS OF ELECTRICAL ENGINEERING and APPLIED PHYSICS of Twente University

tuli professorship In the Materials Science of Transducers Group which is part of both above mentioned

The group participates in the activities of the Sensors and Actuators Research Unit of the Department of Electrical Engineering.

The research carried out by the group is principally involved with the development of materials for use in transducers (sensors and actuators), applicable in the field of information lechnology. Particularly the atomic fysical, chemical structural and (micro) technological

The professorable carries the following

-- to take part in the educational assignments

of the group

participate in the current research program which is concentrated on thin magnetic films for use in

The candidate should have expertise and bo iterested in materials applicable for transducers especially in the fields of atomic and ghemical structures and micro-technology.
It is also expected that the candidate will have knowledge and show interest in various fields of

Applications are invited for the following posts from I January 1983 or as soon as possible there-after. PROLESSOR OF EXPLORATION GEOLOGY SENIOR LECTURER LECTURER IN PHARMACY LECTUREI/JUNIOR LECTURER IN BUSINESS DATA PROCESSINGS LECTURLIZIUNIOR LLCTUREU IN LINGUINTICS AND ENGLISHI LANGUAGE Henginsury post for oss your ju 1983)

JUNIOR LECTURER IN POLITICAL STUDIES (with intrest and qualifications in pullical syriology) (temporary 200 for two years from 1983) The subary scales are 936 Professor - 123109 × 936 - 24045 × 1035 - 3025 per unium. Sollor Las hurur R16557 × 936 - 24045 par ungum. Locturer - R12657 × 780 - 16557 × 936 - 22173 per adition.

Junior Lecturer - R9075

621 - 10317 × 780 - 14217 per annum
(Note: El aterlins = npproximatoly R1,97).

*The post of Lecturer/ Junior leaturer in Business Data Processing will be attached to the Universi-ty's East London Division. **Applicants for the post in Physical Education should have research experience and technical physical Education of the physical Clinical Kinesioosy, Human Respiration. Ersonomics and Human Osit Analysis.

Analysis.

Application forms and further particulars may be obtained from South Africa. Chichester House. 278 High Holloru. London WCIV 711E. One copy of the application should be returned to the South African Universities Orico and one copy form of the Copy of the South African University. Po Box 94 Grahamstown. South Africa University. Po Box 94 Grahamstown. South Africa by not later than 8 October 1982.

All the state of the state of

wanted to say but did not manager

say. We were left, like half the nay not knowing what was going on.
There was some stunning archi-

tilini of dieacthoughts going dong with all hands. There were some

tantalizing comments upon both lell.

coe and Beatty as well as some non-

ly stern condemnations of the incon-

petent intelligence officers who di not know which signals were which

and misled everyone so much that

ships on the same side were morner

in opposite directions. But nothing became really clear and I was left with this thought.

Perhaps it was all unclear because

everything was so grossly overaded by Griffith. If every comment a

quires intense thought, the screen up of the face the held-back gestur.

Sunday

After breakfast, start the concluding sections of a paper on possible effects of oil pollution on marine ecosystems in Papua New Guinea, to pe given at a conference (in Port Moresby) later in the week. I and several colleagues are annoyed at the short notice, seven days, given by the organizers of the conference, for the meeting was planned several

months ago.

Go to the swimming club for lunch and relaxation. Unfortunately the weather lets us down for once and just as lunch arrives so does a forrendownpour. Eat fish and chips

from home, all news is good news.

Monday

Students return after mid semester break. Give lecture about mangrove forests of Papua New Guinea, some of the finest remaining anywhere in the world. Typist works rapidly and in the afternoon check the pollution paper for errors. Go to the airport and check on the progress of our claim for commensation for bargage. Students return after mid semester claim for compensation for baggage cided who is to go. Last in, first out? lost en route to Port Moresby. Little progress, probably months before we get anything. Finish the afternoon in fellow because you don't like him? the library, reading Nature and through the current

Trying to house-train our new cat and decide to leave it out overnight.

Tuesday

Woken at 2am by cat having a fight with vicious stray dog. Go outside but cannot find it. In the morning surprised to find the cat alive: (though badly shaken) and decide to return it to the RSPCA. It is too' dangerous for cats here if the garden'

Collect pollution paper from the printer and find that the pages of all 40 copies are stapled in the wrong order. Decide not to say anything and rearrange them myself.

Spend the rest of the morning sorting and examining some molluscs collected for me by colleagues just returned from a field trip to a remote part of the country. Travel is difficult and expensive here, so one takes all possible opportunities for collecting material. In the afternoon take the students to the oil pollution conference. Interesting talks and films on methods of cleaning up an oil spill, followed by a practical demonstration in a small pond.

Wednesday

Beer

EN

Eight o'clock lecture. Best time of the day for lecturing. Still cool enough not to sweat with the effort and the day not broken up. After the lecture go down to Port Moresby and Do some housework. One of my

and the day not broken up. After the lecture go down to Port Moresby and attend the remainder of the morning session of the conference. Present up paper, which seems to go down all right. One beligerent question from a UK visitor who quotes from a recent (relevant) study and have I seen it. Have to confess that havent.

Afterwards a sen captain from Dundee introduces himself, having recognized my east of Scollard accent. He works for the large copperatine or Bougainville Island and says he'll recommend to his company that I do a short commendate of the student years in Aberdeen that have masked my English accent. Being taken for a Scot is, I am convinced, of more sheefill than being taken as English.

M. R. Chambers

The author is senior lecturer in english accent. Being taken for a Scot is, I am convinced, of more sheefill than being taken as English.

Alterwards a sen captain from Dundee introduces himself, and the control of the contr

a coneague from the law department.

Comment that I am surprised to see him as in a radio broadcast last Sunday he openly questioned the integrity of a government minister. In many countries that means the second of the second On the way home from work meet rity of a government minister. It many countries that would mean a

Thursday

11、12年11日本語·華麗·香港的新聞·新聞·

As usual, cycle to work and admire the view across the rolling savanna land to the distant peaks of the Owen Stanley ranges. The imagined coolness of the peaks is a great coolness of the peaks is a great huddled under a dripping sunshade. Go home and finish the pollution paper, ready for the typist. Help the children with their homework. As they get older, we find our evenings being devoted more and more to them with less time for other activities. Tune in to the BBC World Service for the latest news. So far all seem willing to participate. If not, the course would be in danger of

an "objective" assessment of somefellow because you don't like him?

over rough terrain, some areas will never get roads.

Friday

Listen to pre-breakfast party political broadcast in connexion with the forthcoming general elections. Speaker promises roads for all if his party forms the next government. Take Melanie to see the doctor after an ear infection developed overnight. The fees and medicines for this and yesterday's visit come to over £25.

Pays to be healthy here.

Take the students to the summingup session of the oil pollution conference. No doubt that there are now sophisticated techniques for dealing with oil spills, and the equipment readily available at a price. This price is probably too high for the government; they would be better to compel the trading and development companies to provide the apparatus. companies to provide the apparatus and manpower themselves.

Go home and drink some beers. The two breweries in Papua New Guinea are currently engaged in a price war. This has reduced beer prices by 30 per cent in the last year.

Like many others, no doubt, I have would not be writing this if I did not think there was something wrong and

Who would have thought we were an exciting that actors would want to be like us? It was probably because a lot of them started their acting careers at a university where there is leisure to act and it is the best way to become known. It is certainly the best way to become a comic. To return to the actors. Some

reputable academics are consummate actors, notably Bryant and Taylor. Thed of acting in the lecture room they take to television if they are

not what I have in mind. The actoracademics whom I have just watched folding.

Visit the university doctor and get treatment for enteric amoebae, an occupational hazard of life in the tropics. Finish the afternoon in the life age of the property of the proper

It was a superb performance. The timing was brilliant; Hardy only had to turn round in the middle of a In the evening attend an environmental seminar on transport and economic development. One of the points made by the speaker is that it is inevitable that in Papua New Guinea, with limited finance and a small population scattered widely graphen was that nothing happened.

Just too

canny a

number?

Playing the



Perhaps all academics are would be actors and all actors are would be

and therefore the very stuff for the actor-academic.

actor-academic.

over dangerously and get his feet twisted in one direction while he gets

than their own creative one.

clothes one of these days. The only problem was, that nothing happened. I have for a long time wanted to know why Gordon was in Khartoum and I did not find out. Hardy had thought out everything except the plot.

Lowe who acted as his keeper. But there was at least something to reveal and I believe, in the end, red for the miles of manoeuvring space we know about. Pehaps the Whitehall model watchers gave and went to their clubs leaving it all to lellicoe and his incomprehensible. I was different with Griffith, who to Jellicoe and his incomprehensible s an old hand at this kind of show. vice-admiral, Beatty – about whom Sartorially he is nothing like so smart there was something a genuine histoas Hardy and seems to have only one rian in the programme clearly

> campaign. Greater flexibility might have a considerable appeal to gov-ernment. Whatever Neil Kinnock

trophic lack of movement

a dramatic pointing of the fings, even if the announcement is on that the time is half past three, it difficult for the audience to realize when a serious conclusion is reached But perhaps the problem was that to serious conclusion was reached. The Germans crept away and were never seen again; the English counted their drastic losses and pottered home. Poor Jellicoe, poor Beatty, robbed of a famous victory, or of course a famous defeat. All the intensity of acting had not made it any cleans We may as well go back to A. J. P.

when doing the academic's job rather

To look back at my own school The problem is with the announce- duys: of the five or six of us who dominated all the plays at school the one who merely shifted the scenery became the best paid actor in the country; another became and remains one of our most highly re spected actors; another organized the

that you can have a tremendous effect upon other people with no responsibility for their future? It is easier than being an academic.

Yet it also raises the question of whether the universities should look ment scheme?

for a quid pro quo to offer the Government in return for maintaing a higher level of resources. Perhaps we need a "better value for money"

Hert seneme?

Educational institutions are not susceptible to swift change. By tightening purse strings and the radical use of the LIGC, the present Government. campaign rather than an "anti-cuts" ernment has hastened change to a painful extent. But there is one further, logical and yet more radical step it should take.
Until the recent selective cutting

might do, the good old days are not going to return.
With the onset of the Open Tech exercise by the UGC, little was known about the UGC's sub-commitand a greater interest in distance and tees. But these subject specialist part-time learning, are we prepared to put our investment in higher education to new and more efficient use? Whatever the deal might be, something needs to be desired. committees now carry powers of life something needs to be done to reestablish more dynamic to the system. pause a moment. Before the new structure for Advanced Further The steady erosion of resources and Education fully duplicates the UGC's numbers produces a catas-lack of movement for a single, cross-binary system of subacademic staff. In department after department the middle aged, if not the over-sixties, heavily predominate.

Really talented research students

The culture of research

LETTERS TO THE EDITOR

up with a high rate of refusals, contem- In this age of resource conservation,

porary qualified candidates also must the amount of paper and stamps

prosperous times. As a recent PhD lian research institute developed an

who managed to publish over a dozen interest in me and corresponded by

from the stupid through the hypocritical to the negligent. To wit:

refusal to reach me: in the meantime my popularity there had plummeted

grounds that the applicants' qualifications were "so extraordinarily high I am still looking for a job. Rhe

a) The stupid one. A well-known to the point where an ordinary stamp was considered enough to convey the

wasted thus every year must be truly

c) The negligent one. An Austra-

telephone interview. Afterwards

my popularity there had plummeted

bad news to an already overworked

tors of academe, please apply your

trendy ethics committees to your

PATRICK C. DOUAUD PhD,

tion for all children is right only as far as public school is concerned — high school and university and col-

Department of anthropology. University of Alberta,

own hiring policies.

contend with the whims and inefficien-

cy of selection committees burdened

by the deadwood accumulated in more

positions, then recanted on the

tions were "so extraordinarily high that we could have created a whole

new department of national stand-ing". This is probably why they can-celled everything and re-advertised for

one position only.

b) The hypocritical one. Like

everybody else (in North America at least), I have had my share of uni-

versities advertising internationally -

Sir, - I was very intrigued by Mark Gerson's report from Montreal (THES August 8) about the first

international conference on the sta-

tus of women in this world. It

showed that our globe is not yet a

ions can upset conferences. Whether

the conference was a success is ques-

Should politics, nationalism play a role in the aims of minority groups there is bound to be fanaticism as well, should the results not come

village as many sociologists would demandin like it to be. The differences of opin-

Women's status

Sir. - Your leader (September 10) research organizations. There is a weighting toward research council quite accurately expresses the view that a lack of national culture is likely to strategy to repeat the exploitation of this involves cooperation with inscientific research. Unfortunately, dustry. the gap between seeing research as a panacea for all (or "fire fighting" as it is known in the trade) and treating to show the panacea for all (or "fire fighting" as rect formula for government entry is known in the trade) and treating to show how transfer academic, the industrialist and the it as irrelevant to economic needs, is only a minor symptom of a major newly formed British Technology part-time basis. The work of such

only a minor symptom of a major disease that could turn out to be droup seems to be as hampered as centres could then be guided by infatal. There are three corners to my its predecessor, the National Redustrial and fundamental needs, search and Development Corporation of the property o argument.

The first is the effect of the NIH (not invented here) syndrome.

Abbough there are many firms in such organizations assumes a climate from concentrated funding effort. Although there are many firms in this country that work harmoniously and receptively with academic resear- and receptively with academic resear- sion, the involvement of BTG looks chers, many (particularly among the expensive to a firm that is struggling effort within university walls (but not the university is producing results, these are ignored to justify the investment. One cannot point at the industrial organization alone; the industrial organization alone; the lence. In the recent flood of economic department of electrical spirit of NIH may equally be found mies it was clear that research excel- engineering, and electronics,

among universities and government lence was measured by a heavy Brunel University. General secretary Sir, - I wonder if I am over sensitive about such matters but I do consider your reporting of the Association of University Teachers' search for a new general secretary as verging on the prurient and certainly as an inrusion on a matter which I see as being between the applicants and the selec-

Firstly you publish the names of. those who have failed to make the articles and a monograph in less than express delivery until the day of the final shortlist thus slighting them in four years to conform to the lofty the eyes of their colleagues and making public something which they may be standards offered to me, I have recenting public something which they may be standards offered to me, I have recenting there was a six-week wait, followed by the 32 days it took their letter of well have wished to keep quiet. Then, having elevated four in the same public eye for final consideration, you announce the unlikelihood a decision being reached when they are eventually interviewed, thus managing to slight them also.
You also announce that the com-

mittee might return to its first shortlist. If that happens and if one of those is finally appointed, it will be apparent to the entire membership and to your entire readership that he or she was clearly not the first choice. In so doing you have managed to turn a perfectly proper procedure into a thoroughly unedifying spectacle. Yours faithfully, STEPHEN WESTACOTI

i Walton Station Lane, Sandal, Wakefield, West Yorkshire.

Total universities

Dear Sir, - I wonder if others also will think it strange that although there is now quite a literature about total universities, like Graham Moodie's well-known books, practically nothing is available on univers-

anything forwarded will be treated as confidential unless I get explicit permission otherwise.

Yours sincerely,

B. PETER WARDEN I. confidential unless I get explicit per-

R. PETER WASSELL Extramural department Edinburgh University. Expensive disharmony

a major deterioration in relationships | Coventry (Lanchester)

wart, is quoted as saying that there is no dispute with the trade union group. He must surely be aware, however, that the past year has seen DOUGLAS TATLOR, contents ALAN LAWRIE, Secretary, NUS staff trades union group, 3 Endsleigh Street, London WC1H 0DU.

Sir. In your report "NUS row over chief executive's 'perks'" (THES September 10, 1982) it is suggested that NUS attracts loyal and committed that NUS interest of the executive of the executive

natural place of women as educators

have never opposed competent or opposed competent or professional management; indeed, we would management; indeed, we would management indeed. The NUS president, Mr Neil Ste-

may be threatened as more and more in the community realize that educa-Quebec H3C 2T6.

Succursale A.

September 10, 1982) it is suggested that NUS attracts loyal and committed that NUS's internal problems are the feesult of "a more cost effective, professional management structure". We are writing as representatives of the have never opposed competent or surely must be reviewed for the sake and the fact that NUS attracts loyal and committed that NUS attracts loyal and com was two years ago which was when the idea of an ex-students association was mooted. What has happened this year is that a steering committee has been replaced by the first "real" on one side of the puper. The editor reserves the right to cut or amend

Films for promotion

Sir, - Your correspondents who wrot to comment on, and to jeer at, m failure to mention more than three o As I see it, there is only one way the films "advertising" universities write in ignorance of their duties. The three mentioned in my article are th only three since 1948 to be notified to the quarterly British National Film

Catalogue.
If there are more than 30 more in existence then their makers or spon sors are neglecting the first duty of any university department which is to publish its inventions nationally. I met these three films through the National Film Catalogues and was chers, many (particularly among the larger ones) see the science don as a potential competitor. Often, successful university research is seen merely as an indicator for the large firm to devote its own effort to rediscovery. Sometimes, if the firm has a large investment in a research area where and investment in a research area where the manual manua able to recommend that the National makers of the 36 others known to him will come out of their amused state of cosy coterie superfority and do their duty to fellow film makers, film students and historians. The further point that worries n

s this. Is the making of advertising films a legitimate use either for the public funds on which most universi-Sir. – What's wrong with the hiring policies of our universities and research institutes? Beside having to put date, who happens to be on the spot. ties subsist or of the limited audiovisual resources and expertise available to universities? Escalation in advertising, as in arms races, usually escalates well beyond the justifiable out of fear and imitation. Does it not give the possibly quite unjust im-pression that university audio-visual centres are directed by people who find it cosier to think in advertising media rather than pedagogical terms? Can any audio-visual centre show that the cost of the films has been justified in student response?

Given the current University Grants Committee limits and penalties on student numbers and the design of the standard Universities Central Council on Admissions form, such demonstration would have to be in terms of quality rather than quantity. I believe university audiovisual expertise should be put to better use than aping the sales techniques of detergent manufacturers. Yours sincerelv.

D. C. WATT Stevenson professor of internationa history, University of London.

Monopoly

Sir. - The present agreements (THES, August 6 1982) whereby the Medical Research Counit grants first option in the rights of commercial lege education, however, can only be supported for those who are gifted and promise to pass those examinations which become more and more demanding at higher institutes of legalization of patents produced by MRC staff to the British biotechnology company Celltech (a "monopoly position"). And the British Technology Group retains a monopoly right to the first refusal of patent rights arislearning.

Even women will have to toe the line for employment in an ever decreasing field. Men or women of quality of thought have worked together successully – sometimes the men had to give points and sometimes women. Certainly women have

cally nothing is available on universities, it feel sure there must have been a number of internal papers on the subject, both descriptive and analytical. If anyone cares to send me examples I shall be extremely grateful. I am not asking for any confidences to be broken but anything forwarded will be treated as confidential unless I get explicit per
Tole in the aims of inhortly there is bound to be fanaticism as well, should to be fanaticism as well, as bounded to give points and some-distort or prevent competition.

In particular, what are the royal-tion or sports. It is obvious that women should be able to grow into that stature they are capable of. But what would they say should a man take the job of a typist or private for day care centres. In this day and for day care centres. In this day and anything forwarded will be treated as confidential unless I get explicit per-like there is bound to be fanaticism as well, should the results not come about. Tempers rise and reason may the course of conduct tend to restrict, distort or prevent competition.

In particular, what are the royal-tion or sports. It is obvious that women should be able to grow into that stature they are capable of. But what would they say should a man take the job of a typist or private such as take the job of a typist or private fail short. That was perhaps the women should be able to grow into that stature they are capable of. But what would they say should a man take the job of a typist or private fail short. That was a male tion or sports. It is obvious that the value of the course. In the royal-tion or sports. It is obvious that there is a need ly or wholly supported on research counil grants? STANLEY ALDERSON 7 Highfield Avenue, Cambridge CB4 2AJ.

I hope this clarifies the matter for

them if necessary.

Public sector

Union View

unity: the real issue

In the week before the beginning of many college terms the trade union movement assembled in Brighton. Natfhe's delegation and officials re-turned exhausted from a week of

debate and discussion.

Natifie had several motions and mendments on the agenda. A motion of continuing education and unemployment calling attention to the third objective of the New Training Initiative and the need for education al opportunities to be opened up to adults and particularly those who are unemployed, many of them on a more or les permanent basis.

It is significant that the seconder of this motion was the general secretary of the Iron and Steel Trades Confederation (whose members are suffering extensively from unemploy-ment) and many other speakers to the motion came from a cross section of the trade union movement. The same was true in the debate on un employment and training in which the role of the new Youth Training

Scheme was highlighted.
Natfhe's amendment to the major composite motion drew attention he need to involve educational interests at all levels. Happily the reminder was more of a perfunctory nature because several unions had already recognized in their contributions the important role which education and educational interests have to

These debates underlined the links that are now being made, in very concrete forms, between major sections of the trade union movement

representing organized working class interests and the educational unions and educational interests. This is an important step forward and one which must be extended if campaigns to restore education cuts and renew educational priorities is to be maintained.

The major composite motion on education provision and education cuts dealt with the problems in many areas of the education service from nursery provision to the universities. As well as highlighting the problems in further and higher education Natfhe has a specific amendment down drawing attention to the recent propos-

During Congress week most uni ons including Natifhe, responded to the call by the TUC asking affiliated unions to support the National Health Service workers in their dispute with the Government. Some will say that this is not part of Natshe's concern and that given the extent of the damage being done to the education service we should concentrate our efforts and engergies on fighting problems in our

Such arguments would once have been highly persuasive in teacher unions but the force of those arguments public sector unity is a real and central

More than this, members recognize the extent to which the National Health Service, like the education service, is an important element in the quality of peoples' lives and that the constant attempt by the present government to reduce that quality is a fight that is increasingly becoming indivisible. The extent to which our members now recognize this on an increasingly widespread basis gives an uplift to motale that is sorely needed at a time when the future for further, higher and adult education looks increasingly bleak. .

Jean Bocock

The author is the assistant secretary for higher education of the National Association of Teachers in Further and Higher Education.